Service Manual

PIONEER®
The Art of Entertainment
TOYOTA

ORDER NO.
CRT2059

LEXUS GS300
LEXUS GS400
AUDIO SYSTEM
DISC PLAYER ASSY

VEHICLE	DESTINATION	PRODUCED AFTER	TOYOTA PART No.	ID No.	PIONEER MODEL No.
LEXUS GS300 LEXUS GS400	U.S.A., CANADA, GERMANY, SAUDI ARABIA, TAIWAN	AUGUST 1997	86270-30150	———	CDX-M8076ZT/E CDX-M8076ZT-91/E
LEXUS GS300 LEXUS GS400	GREAT BRITAIN, HONG KONG, SINGAPORE, AUSTRALIA, NEW ZEALAND	AUGUST 1997	86270-30140	———	CDX-M8176ZT/E CDX-M8176ZT-91/E
LEXUS GS300 LEXUS GS400	U.S.A., CANADA	AUGUST 1997	86270-30160	———	CDX-M8476ZT/UC CDX-M8476ZT-91/UC

Manufactured for TOYOTA
by PIONEER ELECTRONIC CORPORATION

PUB. NO. CRT2059

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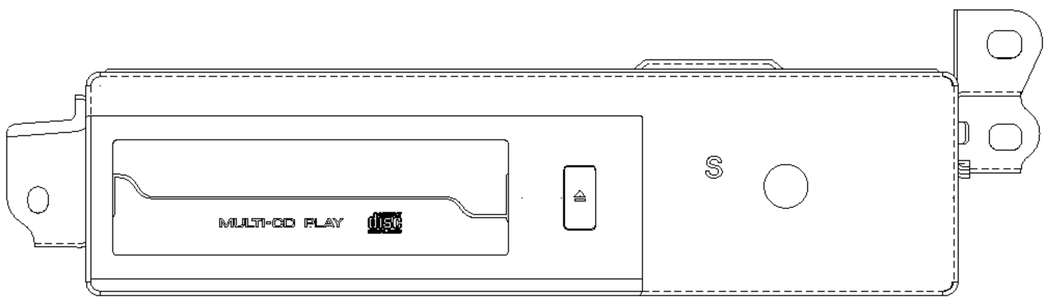
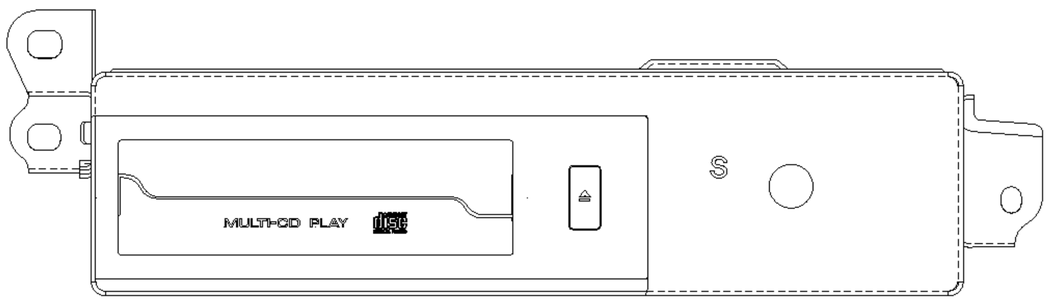
CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91, CDX-M8476ZT,M8476ZT-91

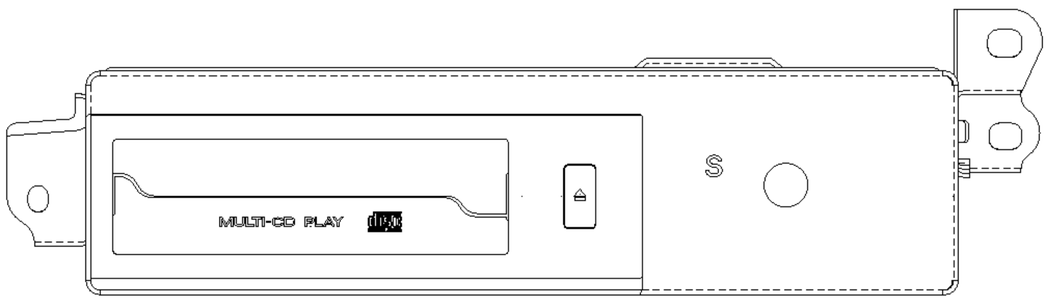
• CDX-M8076ZT/E



• CDX-M8176ZT/E



• CDX-M8476ZT/UC



● **CDX-M8076ZT/E, CDX-M8076ZT-91/E, CDX-M8176ZT/E, CDX-M8176ZT-91/E, CDX-M8476ZT/UC and CDX-M8476ZT-91/UC has adopted AVC-LAN.**

● **The CD mechanism employed in this model is one of C3 series.**

● **See the separate manual CX-624 (CRT1631) for the CD mechanism description and disassembly.**

● **See the separate manual CDX-P616/UC (CRT1632) for CD circuit description.**

● **Supplementary model is identical to the original except for the addition of following items.**

Description	Part No.
Cover	CEG1057
Carton	CHG3141
Contain Box	CHL3141
Protector	CHP1976
Protector	CHP1977

● CD Player Service Precautions

1. For PU unit(CGY1036) handling,please refer to "Disassembly"(Fig.32).
   During replacement,handling precautions shall be taken to prevent an electrostatic discharge(protection by a short pin).
2. During disassembly,be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

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CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91,
CDX-M8476ZT,M8476ZT-91

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

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2. EXPLODED VIEWS AND PARTS LIST

2.1 EXTERIOR

● CDX-M8076ZT/E

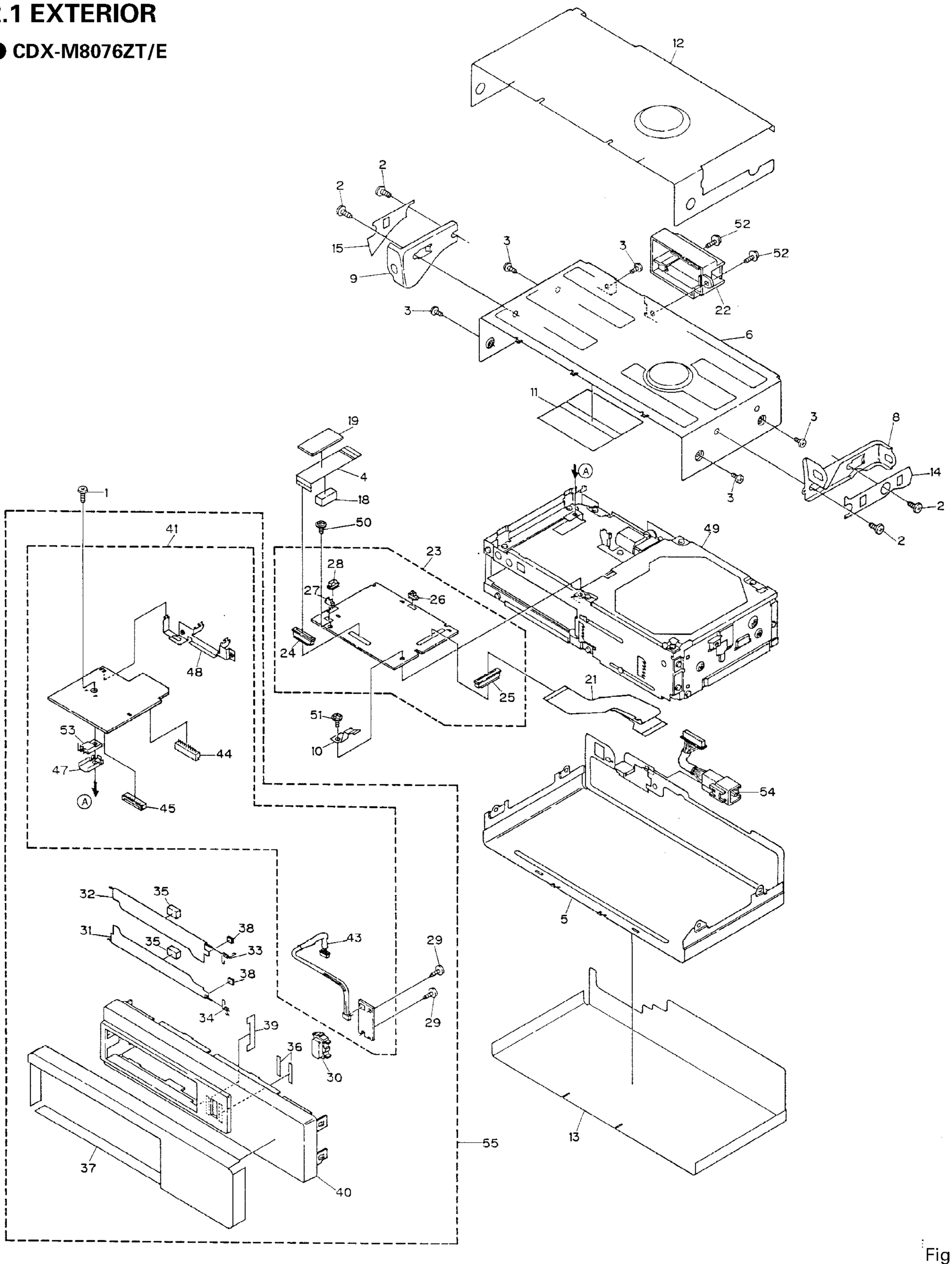

Fig. 1

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● EXTERIOR SECTION PARTS LIST

● CDX-M8076ZT/E

Mark No.	Description	Part No.
1	Screw	BMZ26P080FMC
2	Screw	BMZ40P060FMC
3	Screw	BSZ30P055FMC
4	Connector	CDE5009
5	Case Unit	CXB2057
6	Case	CNB2145
7	•••••	
8	Bracket	CNC6829
9	Bracket	CNC6830
10	Earth	CNC6340
11	Insulator	CNM4428
12	Cushion	CNM5007
13	Cushion	CNM5119
14	Cushion	CNM5005
15	Cushion	CNM5006
16	•••••	
17	•••••	
18	Spacer	CNM4821
19	Spacer	CNM4822
20	•••••	
21	PCB	CNP3954
22	Holder	CNV5009
23	Main Unit	CWX2041
24	Connector(CN1701)	CKS2770
25	Connector(CN1801)	CKS2779
26	Connector(CN1803)	CKS3124
27	Connector(CN1702)	CKS3125
28	Connector(CN1802)	CKS3127
29	Screw	BPZ26P080FMC
30	Button	CAC3706
31	Door	CAT1712
32	Door	CAT1713
33	Spring	CBH1851
34	Spring	CBH1852
35	Cushion	CNM3840
36	Cushion	CNM4006
37	Cushion	CNM5009
38	Cushion	CNM4632
39	Sheet	CNM4665
40	Grille	CNS4405
41	Extension Unit	CWX2040
42	•••••	
43	Connector(CN905)	CDE4748
44	Plug(CN911)	CKS2721
45	Connector(CN903)	CKS2224
46	•••••	
47	Heat Sink	CNC4447
48	Holder	CNC6900
49	CD Mechanism Unit	CXK4021
50	Screw	IMS20P030FMC
51	Screw	IMS26P040FMC
52	Screw	ISS30P080FZK
53	Transistor(Q911)	2SB942A
54	Cord	CDE5398
55	Grille Assy	CXA9468

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CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91, CDX-M8476ZT,M8476ZT-91

● CDX-M8176ZT/E

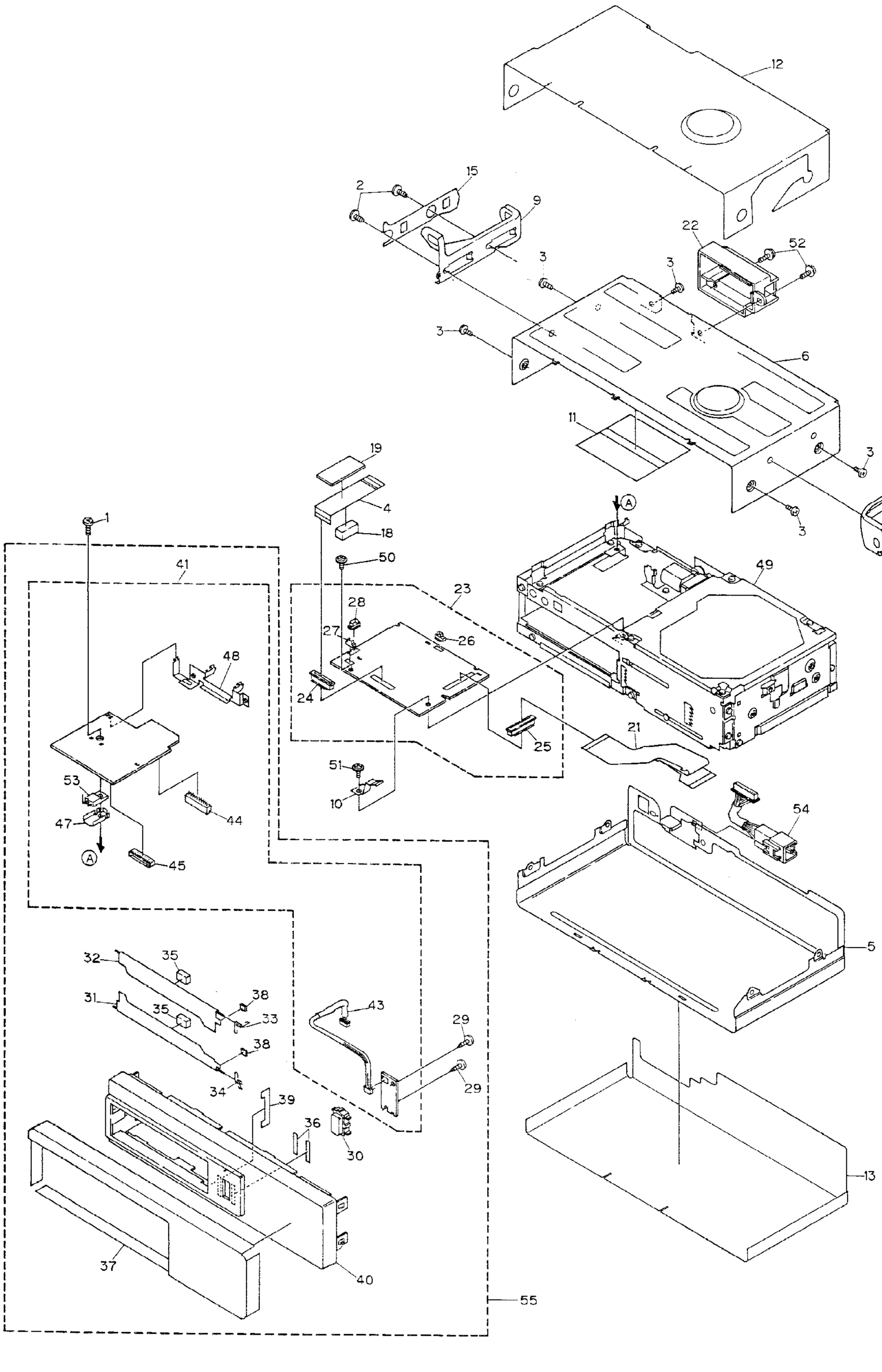

Fig. 2

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● EXTERIOR SECTION PARTS LIST

● CDX-M8176ZT/E

Mark No.	Description	Part No.
1	Screw	BMZ26P080FMC
2	Screw	BMZ40P060FMC
3	Screw	BSZ30P055FMC
4	Connector	CDE5009
5	Case Unit	CXB2057
6	Case	CXB2145
7	•••••	
8	Bracket	CNC6823
9	Bracket	CNC6824
10	Earth	CNC6340
11	Insulator	CNM4428
12	Cushion	CNM5125
13	Cushion	CNM5119
14	Cushion	CNM5015
15	Cushion	CNM5016
16	•••••	
17	•••••	
18	Spacer	CNM4821
19	Spacer	CNM4822
20	•••••	
21	PCB	CNP3954
22	Holder	CNV5009
23	Main Unit	CWX2041
24	Connector(CN1701)	CKS2770
25	Connector(CN1801)	CKS2779
26	Connector(CN1803)	CKS3124
27	Connector(CN1702)	CKS3125
28	Connector(CN1802)	CKS3127
29	Screw	BPZ26P080FMC
30	Button	CAC3706
31	Door	CAT1712
32	Door	CAT1713
33	Spring	CBH1851
34	Spring	CBH1852
35	Cushion	CNM3840
36	Cushion	CNM4006
37	Cushion	CNM5009
38	Cushion	CNM4632
39	Sheet	CNM4665
40	Grille	CNS4405
41	Extension Unit	CWX2040
42	•••••	
43	Connector(CN905)	CDE4748
44	Plug(CN911)	CKS2721
45	Connector(CN903)	CKS2224
46	•••••	
47	Heat Sink	CNC4447
48	Holder	CNC6900
49	CD Mechanism Unit	CXK4021
50	Screw	IMS20P030FMC
51	Screw	IMS26P040FMC
52	Screw	ISS30P080FZK
53	Transistor(Q911)	2SB942A
54	Cord	CDE5398
55	Grille Assy	CXA9468

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CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91, CDX-M8476ZT,M8476ZT-91

● CDX-M8476ZT/UC

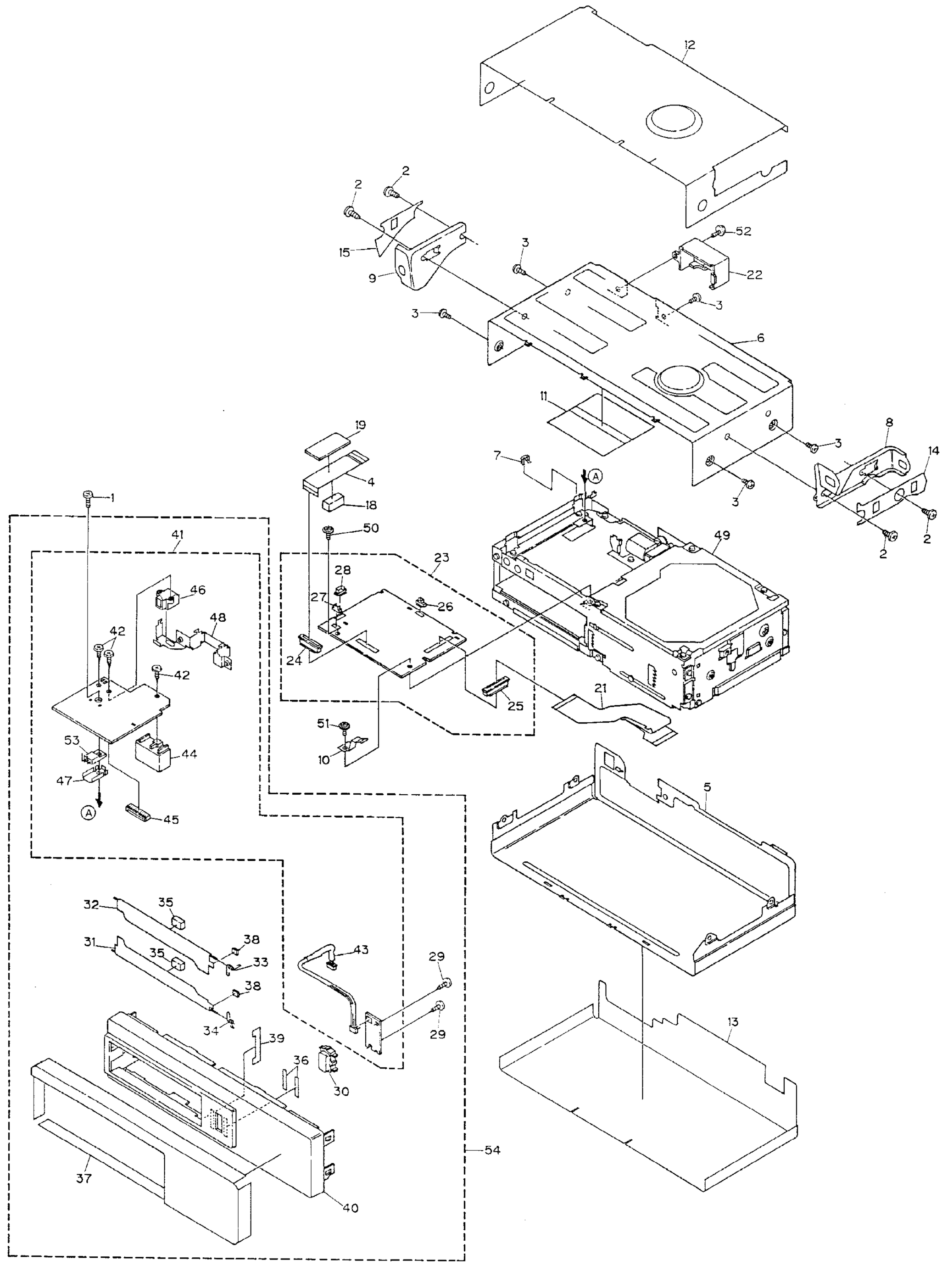

Fig. 3

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● EXTERIOR SECTION PARTS LIST

● CDX-M8476ZT/UC

Mark No.	Description	Part No.
1	Screw	BMZ26P080FMC
2	Screw	BMZ40P060FMC
3	Screw	BSZ30P055FMC
4	Connector	CDE5009
5	Case Unit	CXA9530
6	Case	CNB2101
7	Earth Plate	CNC5769
8	Bracket	CNC6829
9	Bracket	CNC6830
10	Earth	CNC6340
11	Insulator	CNM4428
12	Cushion	CNM5007
13	Cushion	CNM5008
14	Cushion	CNM5005
15	Cushion	CNM5006
16	•••••	
17	•••••	
18	Spacer	CNM4821
19	Spacer	CNM4822
20	•••••	
21	PCB	CNP3954
22	Holder	CNV4095
23	Main Unit	CWX2094
24	Connector(CN1701)	CKS2770
25	Connector(CN1801)	CKS2779
26	Connector(CN1803)	CKS3124
27	Connector(CN1702)	CKS3125
28	Connector(CN1802)	CKS3127
29	Screw	BPZ26P080FMC
30	Button	CAC3706
31	Door	CAT1712
32	Door	CAT1713
33	Spring	CBH1851
34	Spring	CBH1852
35	Cushion	CNM3840
36	Cushion	CNM4006
37	Cushion	CNM5009
38	Cushion	CNM4632
39	Sheet	CNM4665
40	Grille	CNS4405
41	Extension Unit	CWX2093
42	Screw	CBA1339
43	Connector(CN905)	CDE4748
44	Plug(CN901)	CKM1211
45	Connector(CN903)	CKS2224
46	Connector(CN951)	CKS3359
47	Heat Sink	CNC4447
48	Holder	CNC6544
49	CD Mechanism Unit	CXK4021
50	Screw	IMS20P030FMC
51	Screw	IMS26P040FMC
52	Screw	ISS30P080FZK
53	Transistor(Q911)	2SB942A
54	Grille Assy	CXA9723

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2.2 CD MECHANISM UNIT

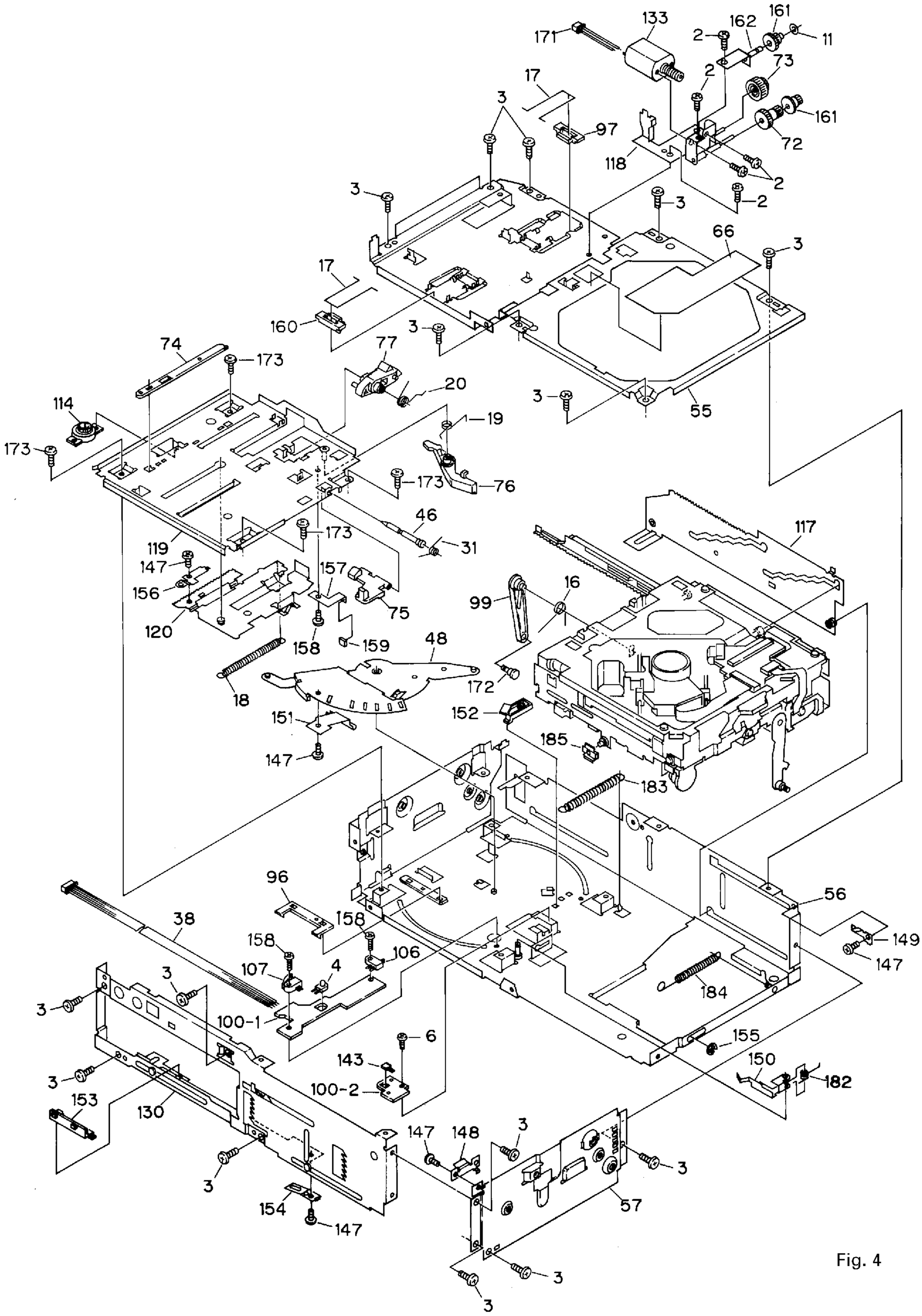

Fig. 4

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CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91,
CDX-M8476ZT,M8476ZT-91

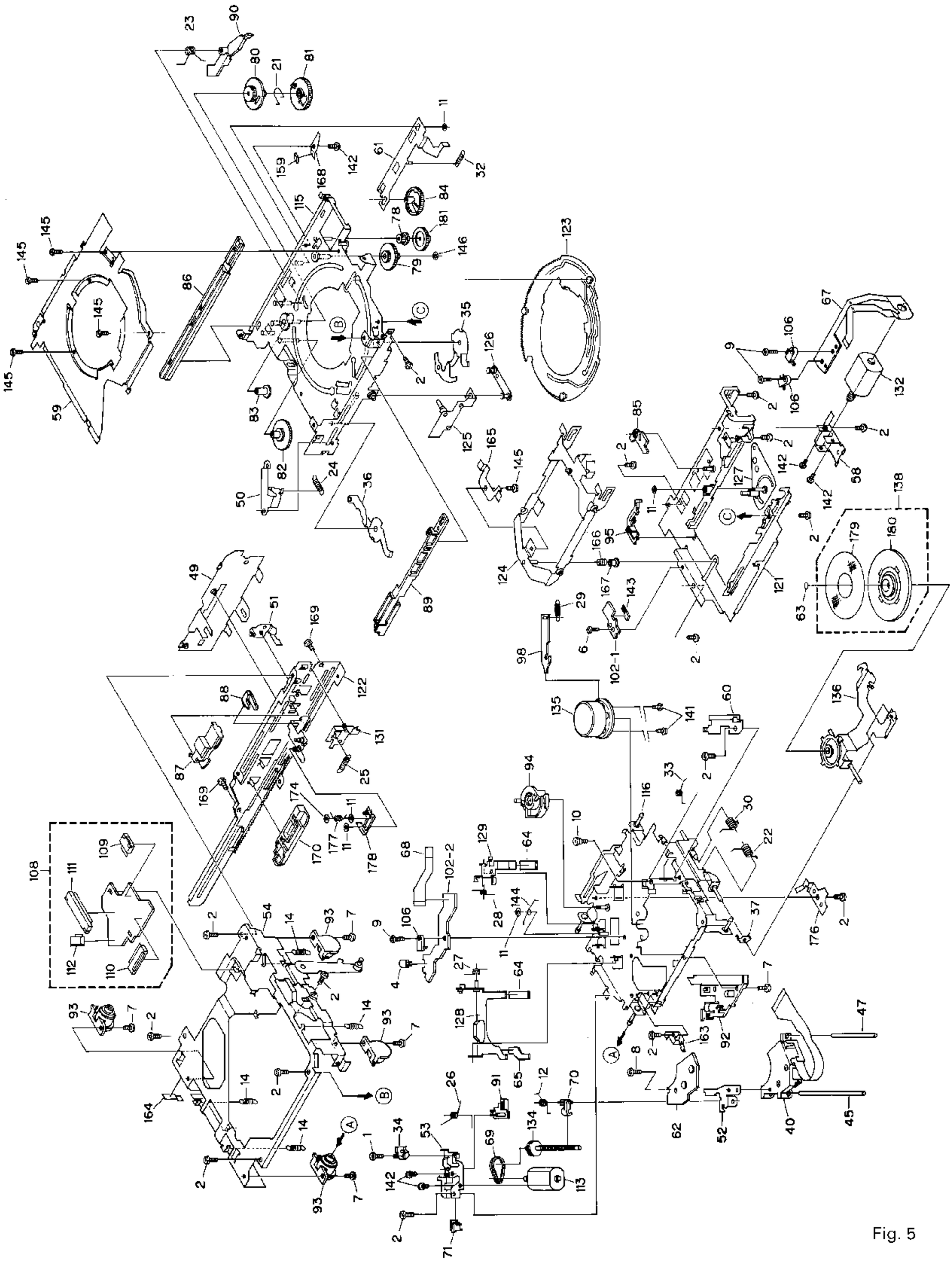

Fig. 5

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● CD MECHANISM UNIT SECTION PARTS LIST

Mark No.	Description	Part No.
1	Screw	BMZ20P030FMC
2	Screw	BMZ20P025FMC
3	Screw(M2.6x3)	CBA1065
4	LED	CN504-2
5	•••••	
6	Screw	CBA1041
7	Screw	CBA1077
8	Screw	CBA1086
9	Screw	CBA1229
10	Screw	CBA1243
11	Washer	CBF1038
12	Spring	CBH1488
13	•••••	
14	Spring	CBH1786
15	•••••	
16	Spring	CBH1588
17	Spring	CBH1589
18	Spring	CBH1782
19	Spring	CBH1592
20	Spring	CBH1593
21	Spring	CBH1594
22	Spring(Silver)	CBH1596
23	Spring	CBH1876
24	Spring	CBH1599
25	Spring	CBH1784
26	Spring	CBH1605
27	Spring(Silver)	CBH1606
28	Spring(Brown)	CBH1607
29	Spring	CBH1843
30	Spring(Black)	CBH1633
31	Spring	CBH1667
32	Spring	CBH1706
33	Spring	CBH1841
34	Spring	CBL1157
35	Arm	CBL1186
36	Arm	CBL1187
37	Spring	CBL1210
38	Connector	CDE4244
39	•••••	
40	PU Unit	CGY1036
41-44	•••••	
45	Shaft	CLA2027
46	Shaft	CLA2322
47	Shaft	CLA2345
48	Link	CNC6337
49	Lever Unit	CXB2362
50	Arm	CNC5168
51	Arm Unit	CXA8394
52	Bracket	CNC5170
53	CM Bracket	CNC5171
54	Cover Unit	CXA8554
55	Frame Unit	CXA9195
56	Main Frame Unit	CXA8953
57	Side Frame	CNC6293
58	Bracket	CNC6020
59	Cover	CNC5567
60	Cover	CNC5576
61	Lever	CNC5678
62	Plate	CNC5782
63	Spacer	CNM1787
64	Sheet	CNM3897
65	Sheet	CNM5204
66	Insulator	CNM4266
67	PCB	CNP3642
68	PCB	CNP3730
69	Belt	CNT1047
70	Rack	CNV3355
71	Holder	CNV3363
72	Gear	CNV4298
73	Gear	CNV3754
74	Guide	CNV4301
75	Arm	CNV4677
76	Arm	CNV3758
77	Arm	CNV4185
78	Gear	CNV4674
79	Gear	CNR1382
80	Gear	CNV3763
81	Gear	CNV3764
82	Gear	CNV3765
83	Gear	CNV3766
84	Gear	CNV3767
85	Arm	CNV3769
86	Guide	CNV3770
87	Guide	CNV3771
88	Guide	CNV4558
89	Guide	CNV4476
90	Arm	CNV3775
91	Bearing	CNV3778
92	Holder	CNV3779
93	Damper	CNV3780

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Mark	No.	Description	Part No.
	94	Cam	CNV4593
	95	Guide	CNV3784
	96	Guide	CNV3785
	97	Arm	CNV3787
	98	Plate	CNV3912
	99	Arm	CNV4291
	100	Gathering PCB	CNX2467
	101	•••••	
	102	Gathering PCB	CNX2466
103-105		•••••	
	106	Switch(S802-805)	CSN1012
	107	Switch(S801)	CSN1025
	108	P.C.Board Unit	CWX1809
	109	Connector(6P)	CKS1944
	110	Connector(17P)	CKS1955
	111	Connector(30P)	CKS1968
	112	Connector(7P)	CKS2406
	113	Motor Unit(M804)	CXA4649
	114	Damper Unit	CXA6443
	115	Stage Chassis Unit	CXA6608
	116	CRG Chassis Unit	CXB1757
	117	Steer Unit	CXA6610
	118	Bracket Unit	CXA8395
	119	Magazine Holder Unit	CXA8397
	120	Lever Unit	CXA8399
	121	Lower Cover Unit	CXA9196
	122	Bracket Unit	CXA8954
	123	Cam Ring Unit	CXA6616
	124	Lever Unit	CXA8390
	125	Lever Unit	CXA6620
	126	Link Unit	CXA6621
	127	Arm Unit	CXA6622
	128	Arm Unit	CXB1120
	129	Arm Unit	CXA6624
	130	Frame Unit	CXA8400
	131	Lever Unit	CXA8421
	132	Motor Unit(M803)	CXA8656
	133	Motor Unit(M802)	CXB1407
	134	Screw Unit	CXA6990
	135	Motor Unit(M801)	CXA4540
	136	Arm Unit	CXA8957
	137	•••••	
	138	Clamper Unit	CXA7632
139,140		•••••	
	141	Screw	JFZ17P025FNI

Mark	No.	Description	Part No.
	142	Screw	JFZ20P025FNI
	143	Photo-transistor (P801,802)	PT4800
	144	Spring	CBH1741
	145	Screw	JFZ20P014FMC
	146	Washer	CBF1002
	147	Screw	CBA1340
	148	Spring	CBL1254
	149	Spring	CBL1229
	150	Arm	CNC6488
	151	Spring	CBL1230
	152	Holder	CNV4440
	153	Guide	CNV4524
	154	Spring	CBL1203
	155	Washer	YE25FUC
	156	Spring	CBL1231
	157	Bracket	CNC6016
	158	Screw	JFZ20P020FZK
	159	Cushion	CNM4495
	160	Arm	CNV4292
	161	Gear	CNV4299
	162	Bracket Unit	CXA8396
	163	Spring	CBL1226
	164	Sheet	CNM4552
	165	Spring	CBL1253
	166	Spring	CBH1778
	167	Holder	CNV4290
	168	Bracket	CNC6097
	169	Screw	CBA1037
	170	Guide	CNV4296
	171	Connector	CDE4968
	172	Shaft	CLA2806
	173	Screw	BMZ26P030FZK
	174	Washer	CBF1037
	175	•••••	
	176	Spring	CBL1250
	177	Spring	CBH1783
	178	Lever Unit	CXA8392
	179	Sheet	CNM4071
	180	Clamper	CNV3774
	181	Gear	CNV4675
	182	Spring	CBH1918
	183	Spring	CBH1781
	184	Spring	CBH1847
	185	Spring	CBL1216

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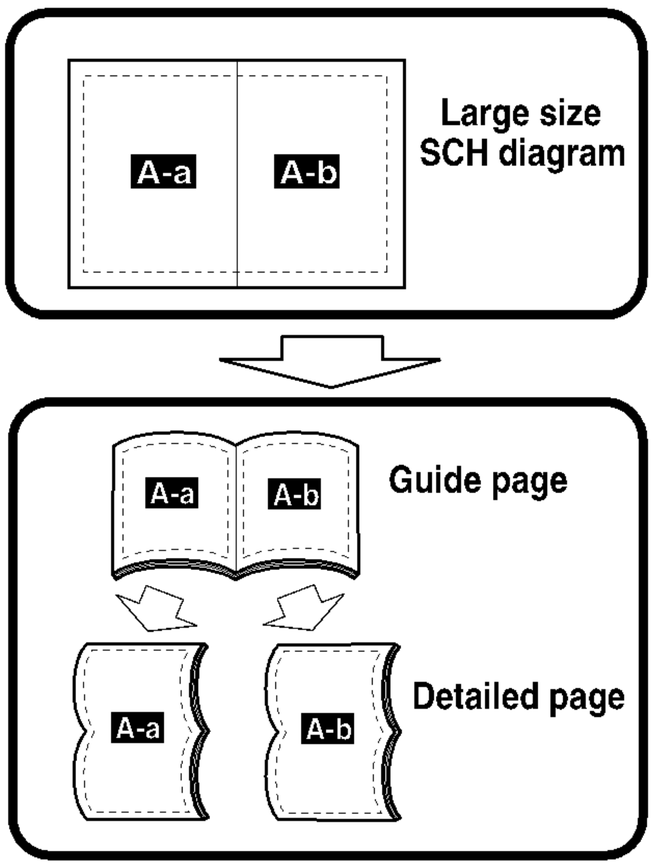
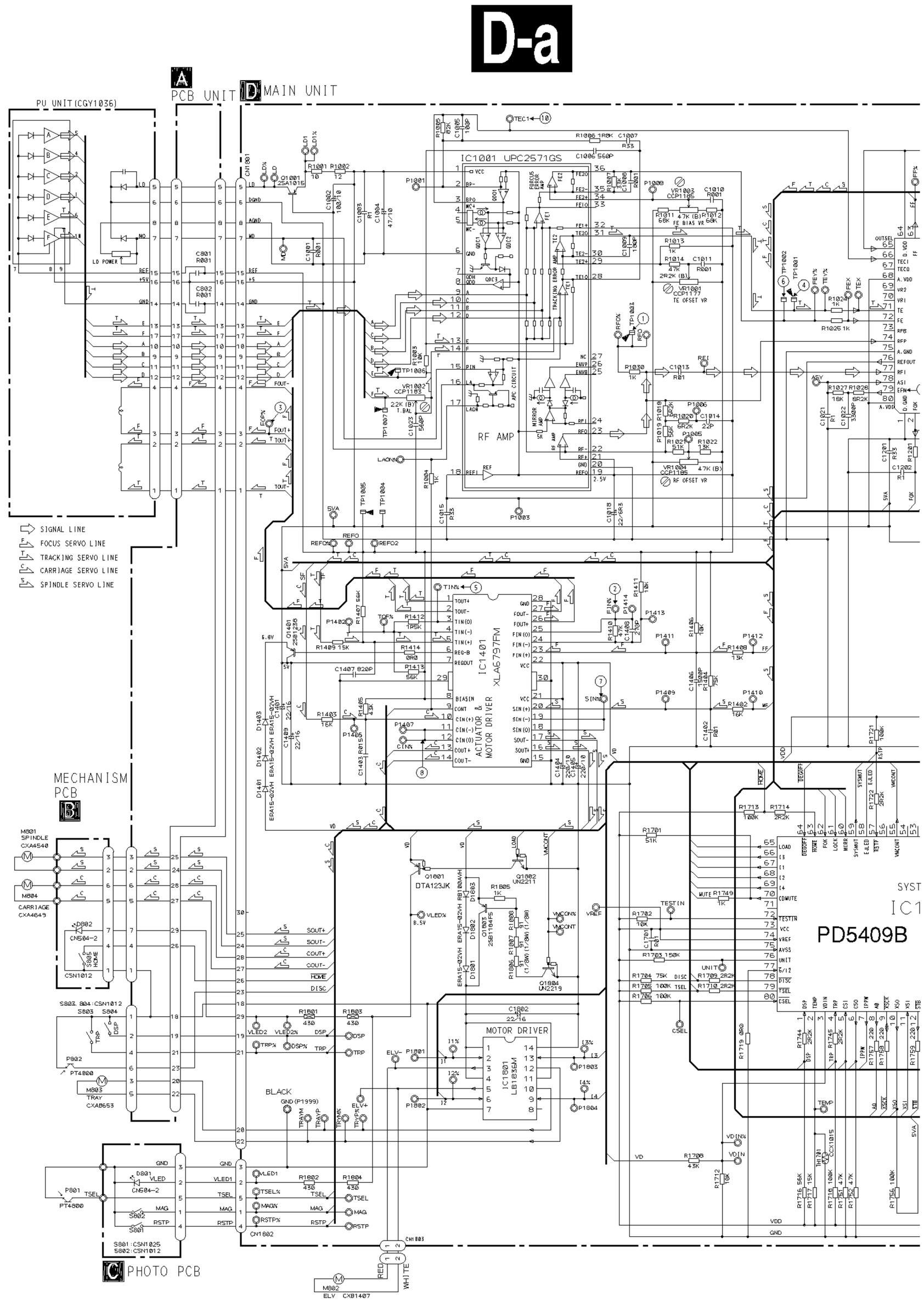
3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

● CDX-M8076ZT/E, M8176ZT/E

Note: When ordering service parts,be sure to refer to "EXPLODED VIEWS AND PARTS LIST"or"ELECTRICAL PARTS LIST".





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D-b

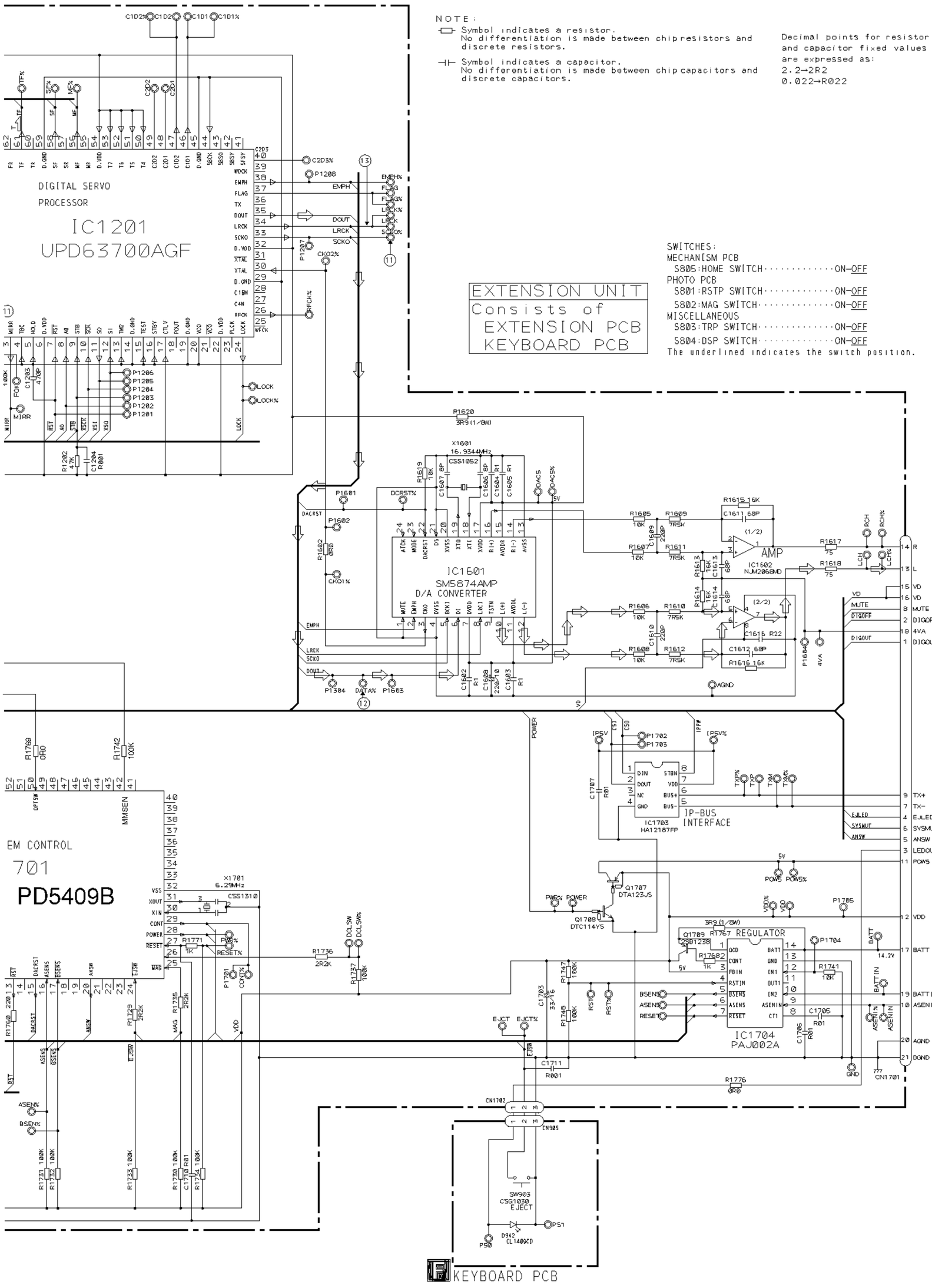

Fig. 6

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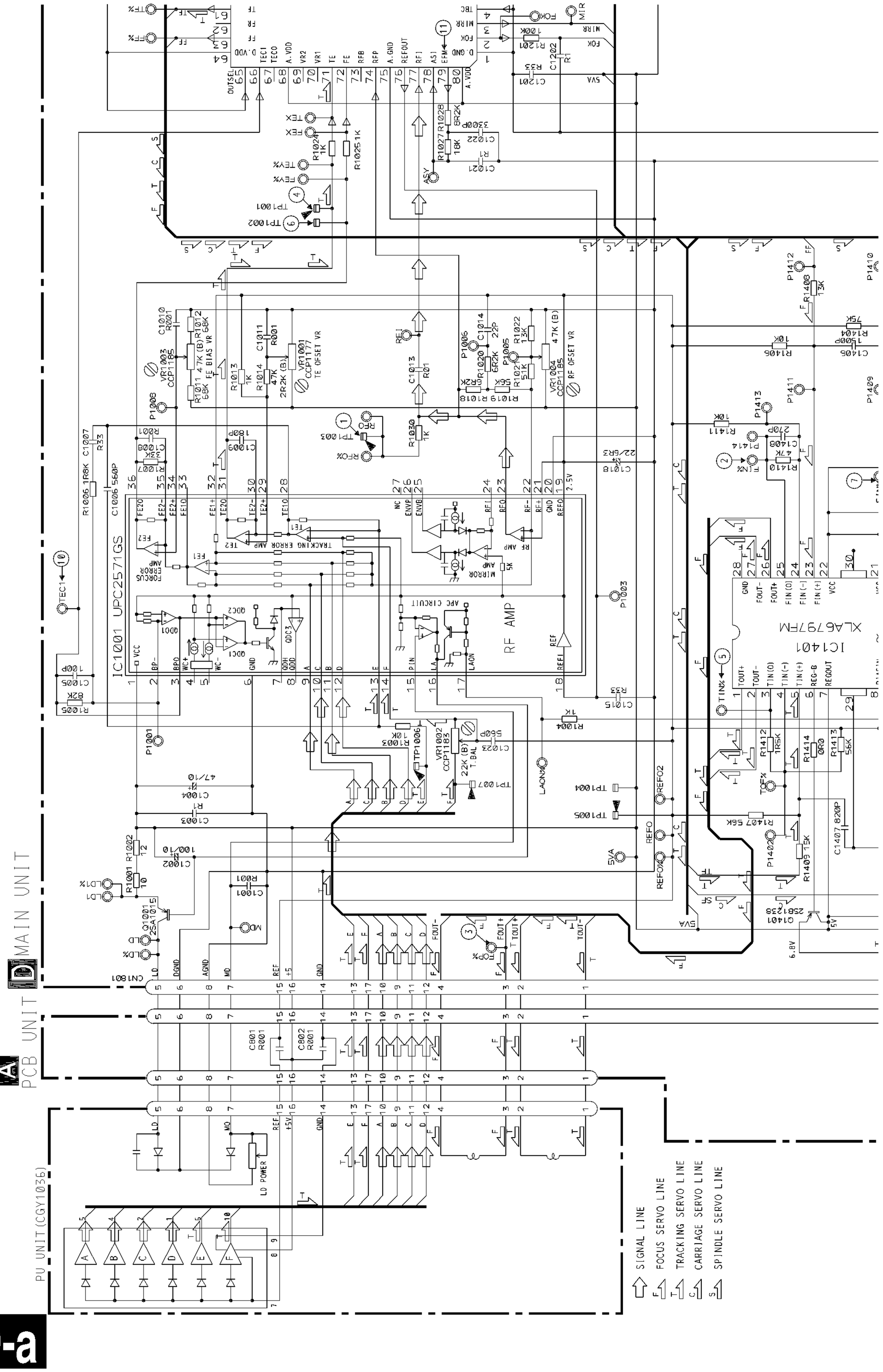
CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91,
CDX-M8476ZT,M8476ZT-91

D-a D-b



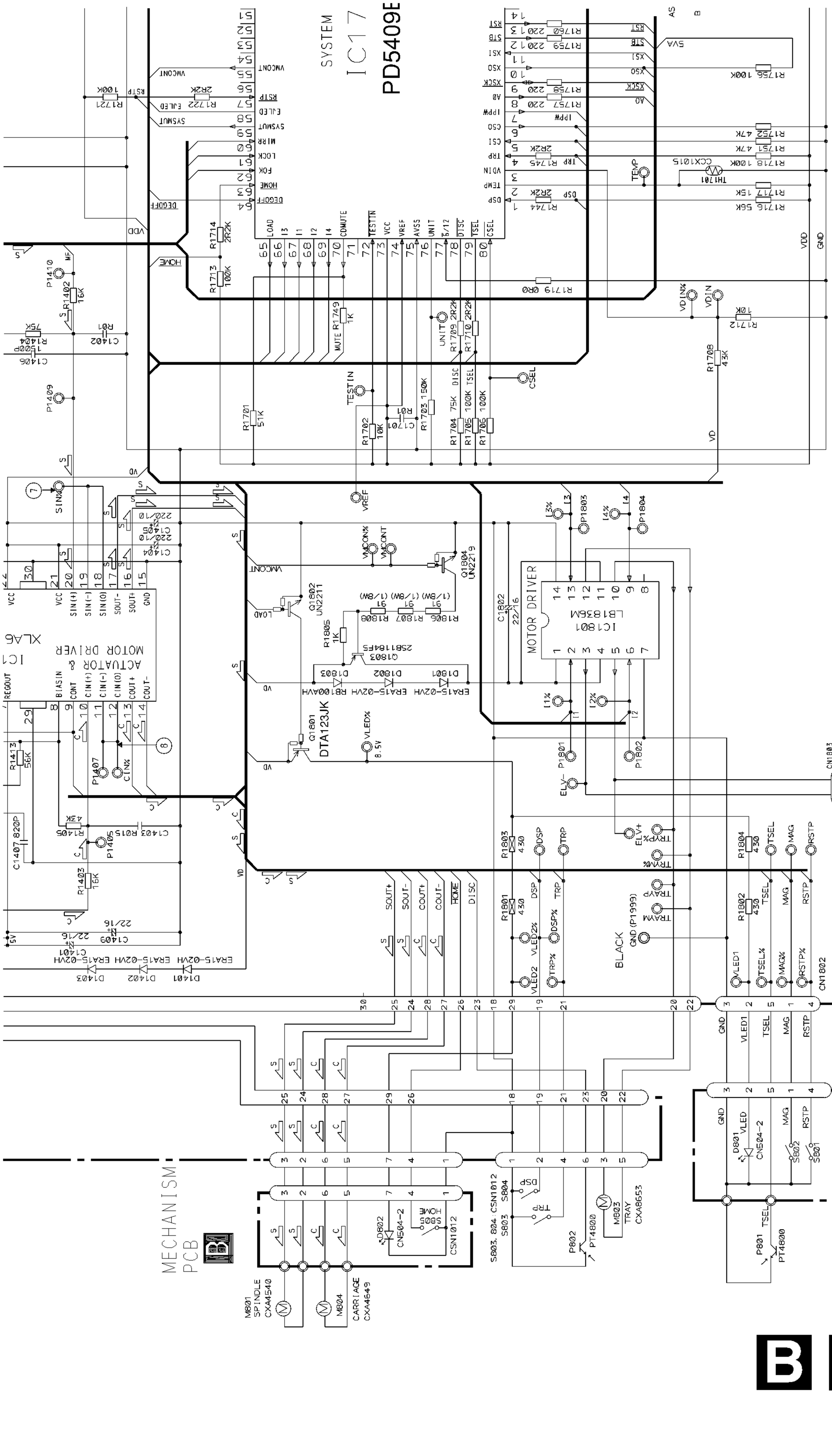


Fig. 7

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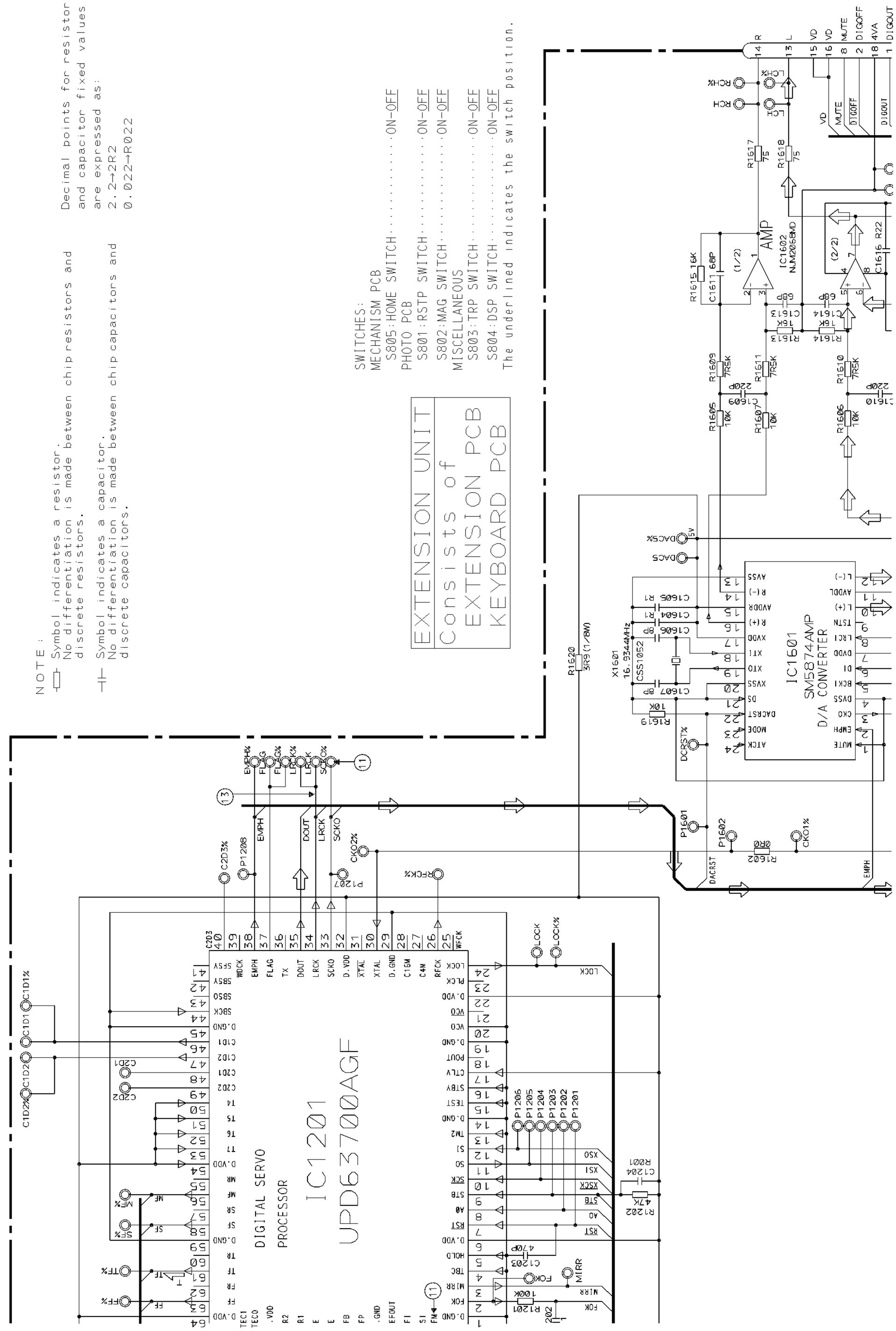
NOTE:
- ⊣⊢ Symbol indicates a resistor.
  No differentiation is made between chip resistors and discrete resistors.
- ⊣⊢ Symbol indicates a capacitor.
  No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

SWITCHES:
MECHANISM PCB
S805:HOME SWITCH ..... ON-OFF
PHOTO PCB
S801:RSTP SWITCH ..... ON-OFF
S802:MAG SWITCH ..... ON-OFF
MISCELLANEOUS
S803:TRP SWITCH ..... ON-OFF
S804:DSP SWITCH ..... ON-OFF
The underlined indicates the switch position.

EXTENSION UNIT
Consists of
EXTENSION PCB
KEYBOARD PCB



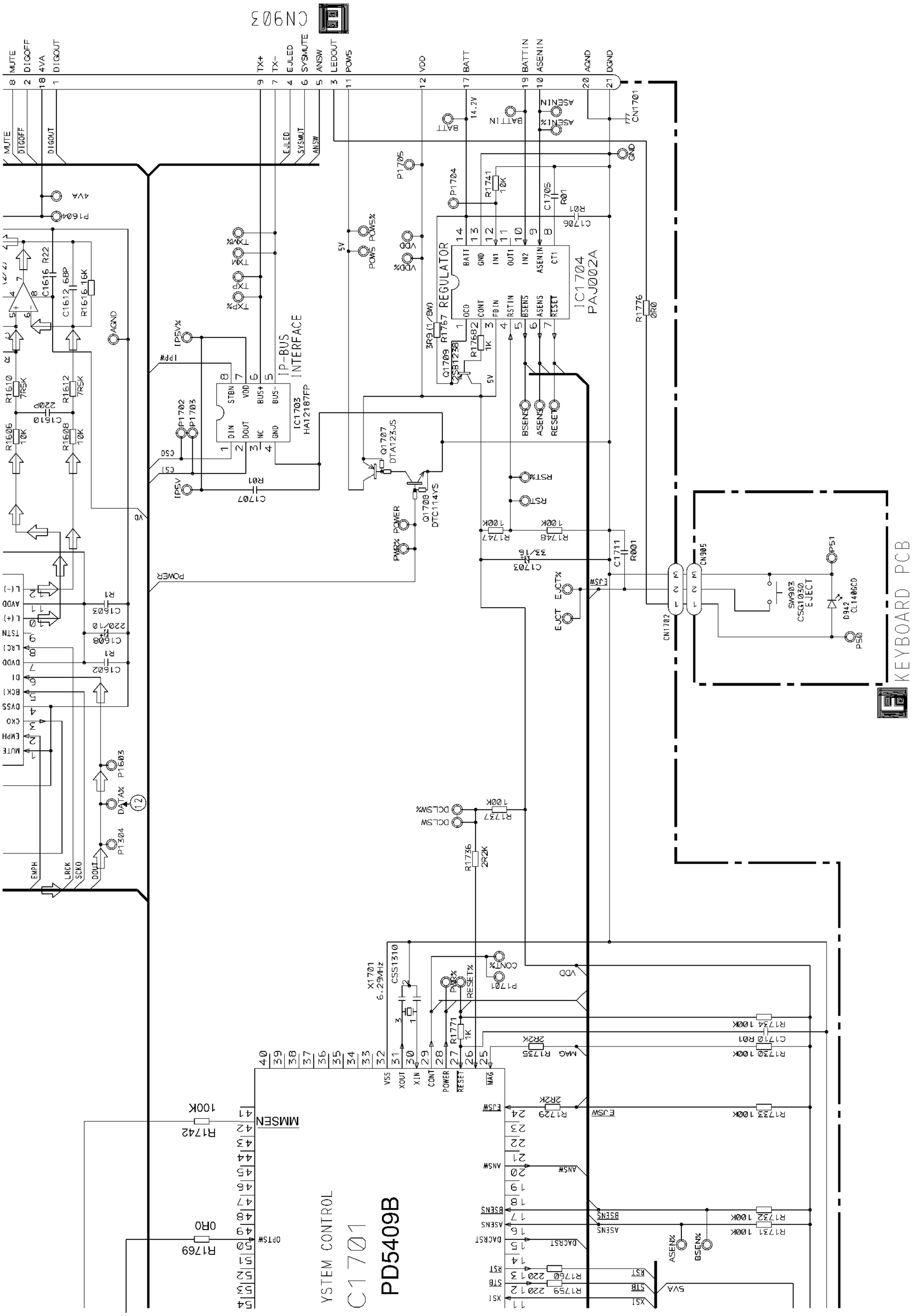
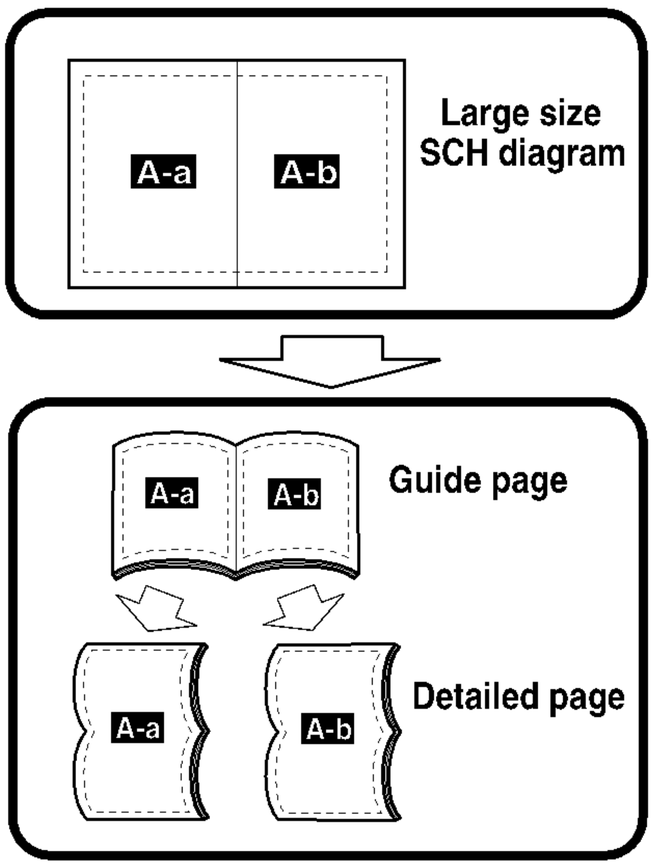

CN903
MUTE
DIGOFF
4VA
DIGOUT
TX+
TX-
EJLED
SYSMUTE
ANSW
LEDOUT
POWS
VDD
BATT
BATTIN
ASENIN
AGND
DGND
CN1701
14.2V
P1705
P1704
R1741 10K
C1705
R01
C1706
GND
IC1704 PAJ002A REGULATOR
BATT
GND
IN1
OUT1
IN2
ASENIN
CT1
OCD
CONT
FBIN
RSTIN
BSENS
ASENS
RESET
R1767 3R9 (1/8W)
Q1709 2SB1238
R1768 2K
R1776 0R0
IP-BUS INTERFACE
IC1703 HA12187FP
STBN
VDD
DIN
DOUT
NC
GND
BUS+
BUS-
IP5V%
IPBW
P1702
P1703
CSO
CSI
IP5V
R01
C1707
Q1707 DTA123JS
Q1708 DTC114YS
POWER
PWR%
POWS%
5V
BSENS
ASENS
RESET
RST%
RST
100K
R1747
R1748
C1703 33/16
C1711 R001
EJCT%
EJCT
EJSW
CN1702
CN905
SW903 CSG1030 EJECT
D942 CL140GCD
P51
P50
KEYBOARD PCB
DCLSW%
DCLSW
R1737 100K
R1736 2R2K
X1701 6.29MHz
CSS1310
XOUT
XIN
CONT
POWER
RESET
MAG
CONT%
P1701
VDD
R1734 100K
C1710 R01
R1730 100K
R1735 2R2K
R1733 100K
R1729 2R2K
R1732 100K
R1731 100K
ASEN%
BSEN%
MMSEN
R1742 100K
OPTSW
R1769 0R0
R1760 220
R1759 220
DACRST
STB
XSI
5VA
SYSTEM CONTROL
C1701
PD5409B
4VA
P1604
R1610 7R5K
R1612 7R5K
C1610 220P
R1606 10K
R1608 10K
C1616 R22
C1612 68P
R1616 16K
AGND
VD
C1603 R1
C1608 220/10
C1602 R1
P1603
DATA%
P1304
EMPH
LRCK
SCKO
DOUT
L(-)
AVDD
L(+)
TSTN
LRCI
DVDD
DI
BCKI
DVSS
CKO
EMPH
MUTE

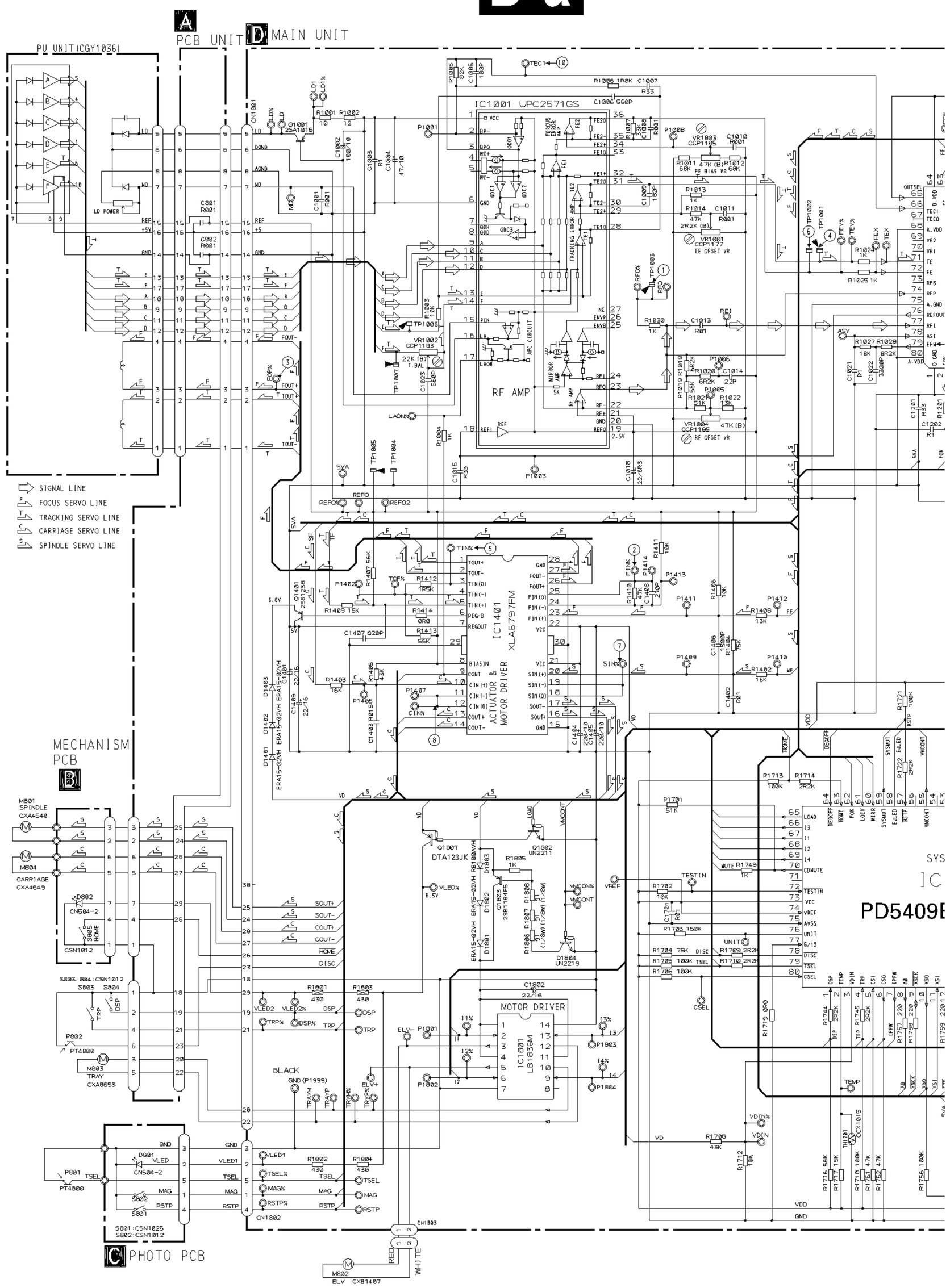
Fig. 8

CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91,
CDX-M8476ZT,M8476ZT-91

● CDX-M8476ZT/UC



D-a



A B C D

ClibPDF - www.fastio.com

D-b

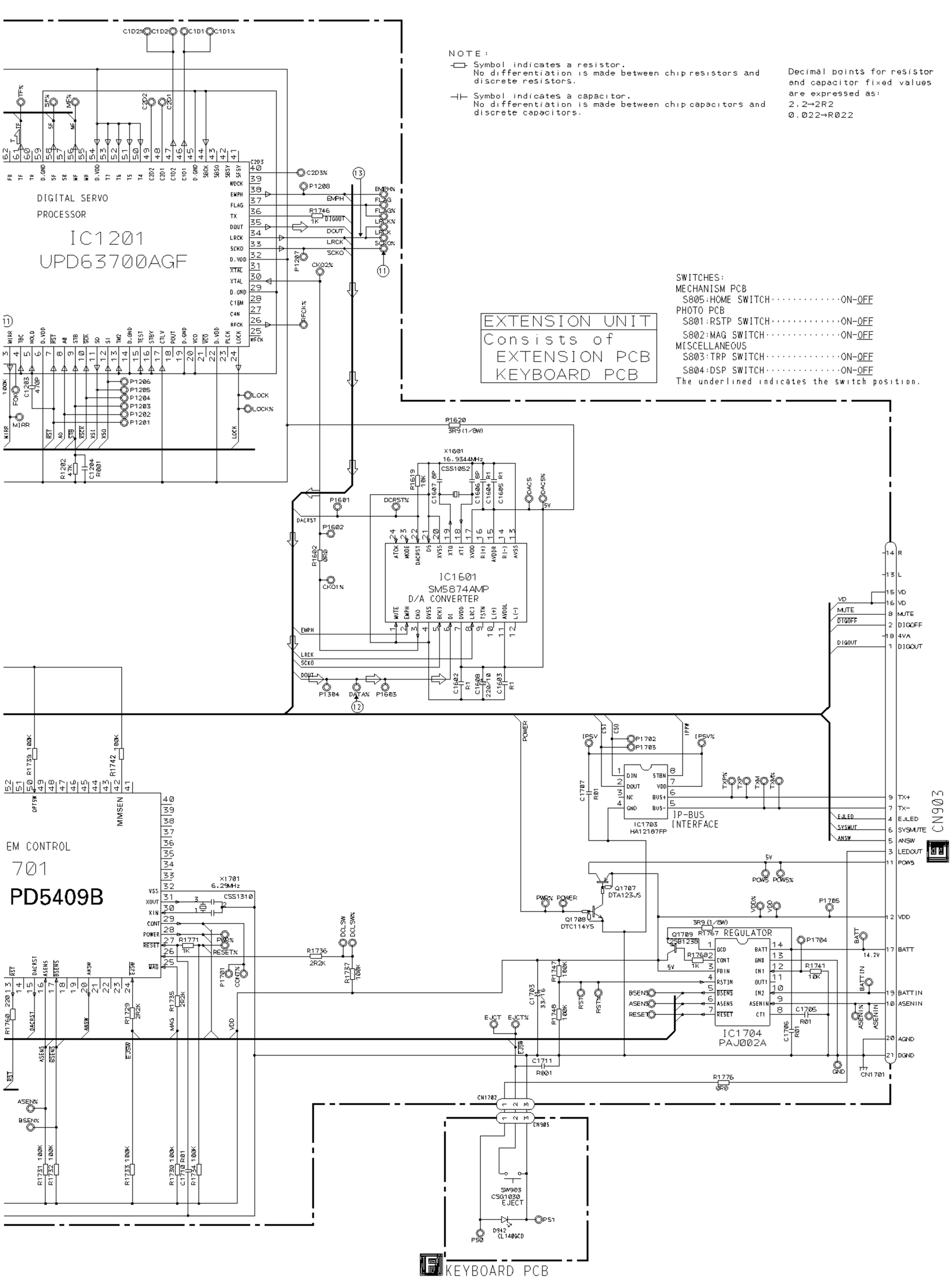


Fig. 9

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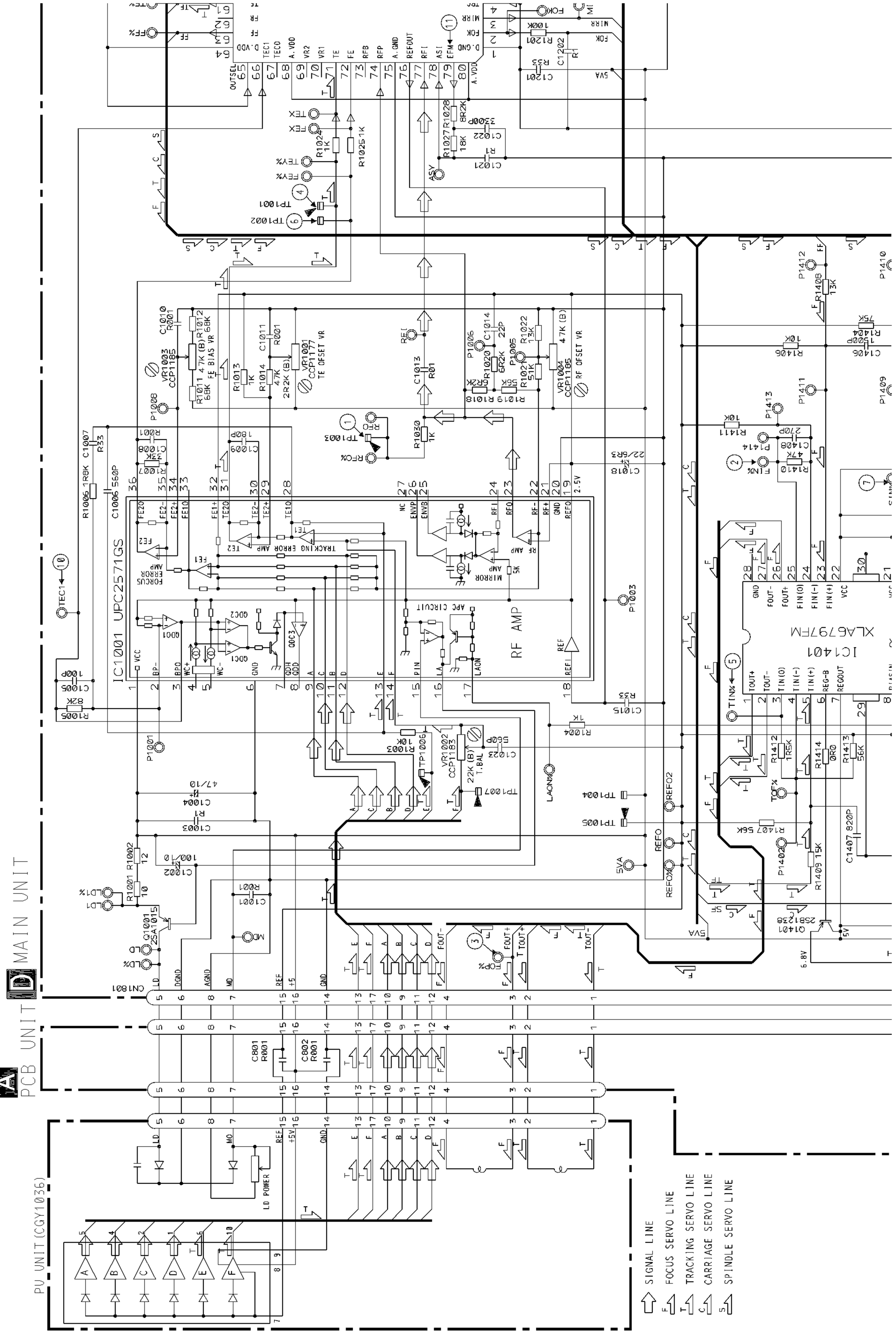
CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91,
CDX-M8476ZT,M8476ZT-91

D-a D-b



ClibPDF - www.fastio.com

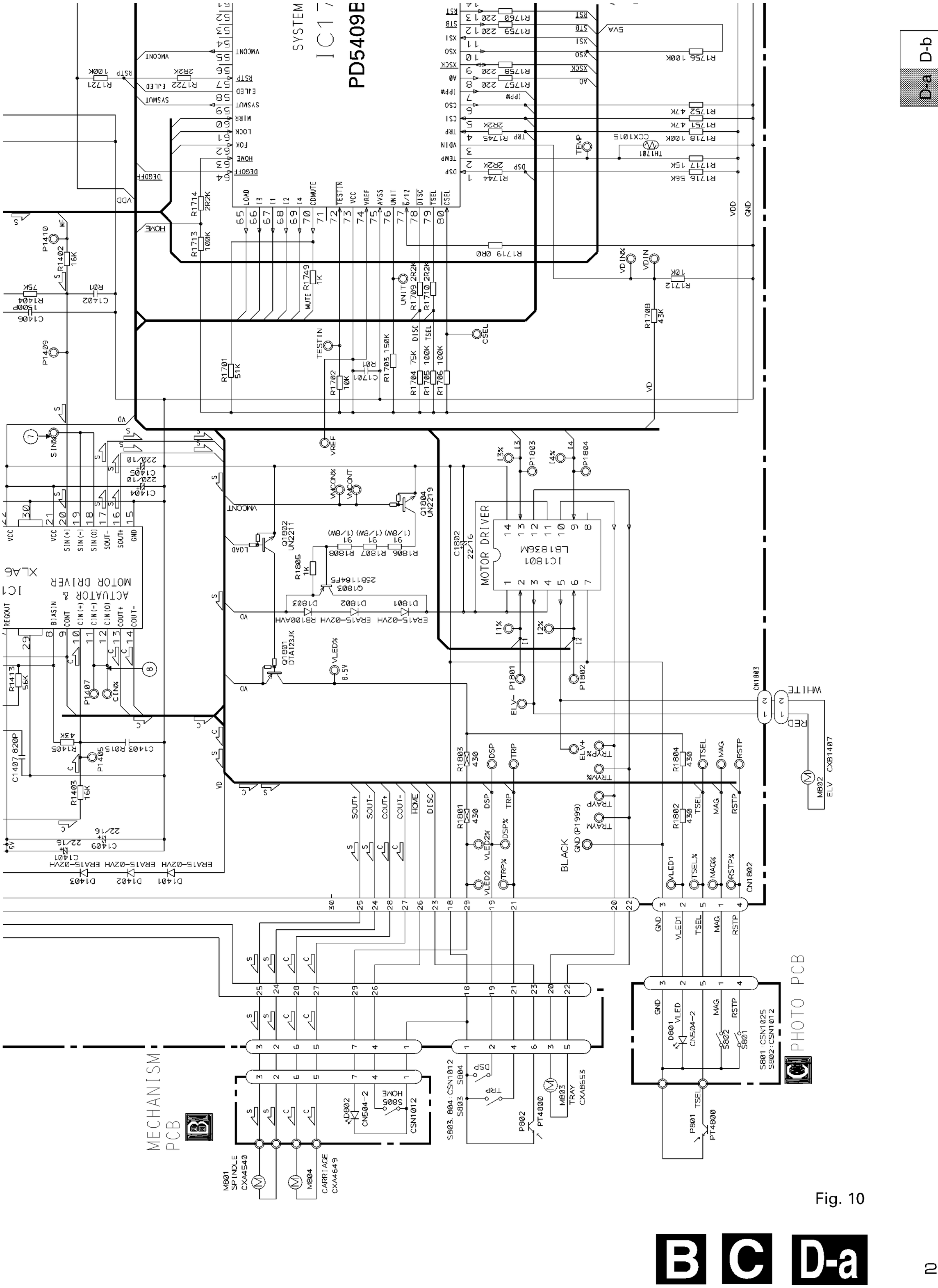


Fig. 10

ClibPDF - www.fastio.com

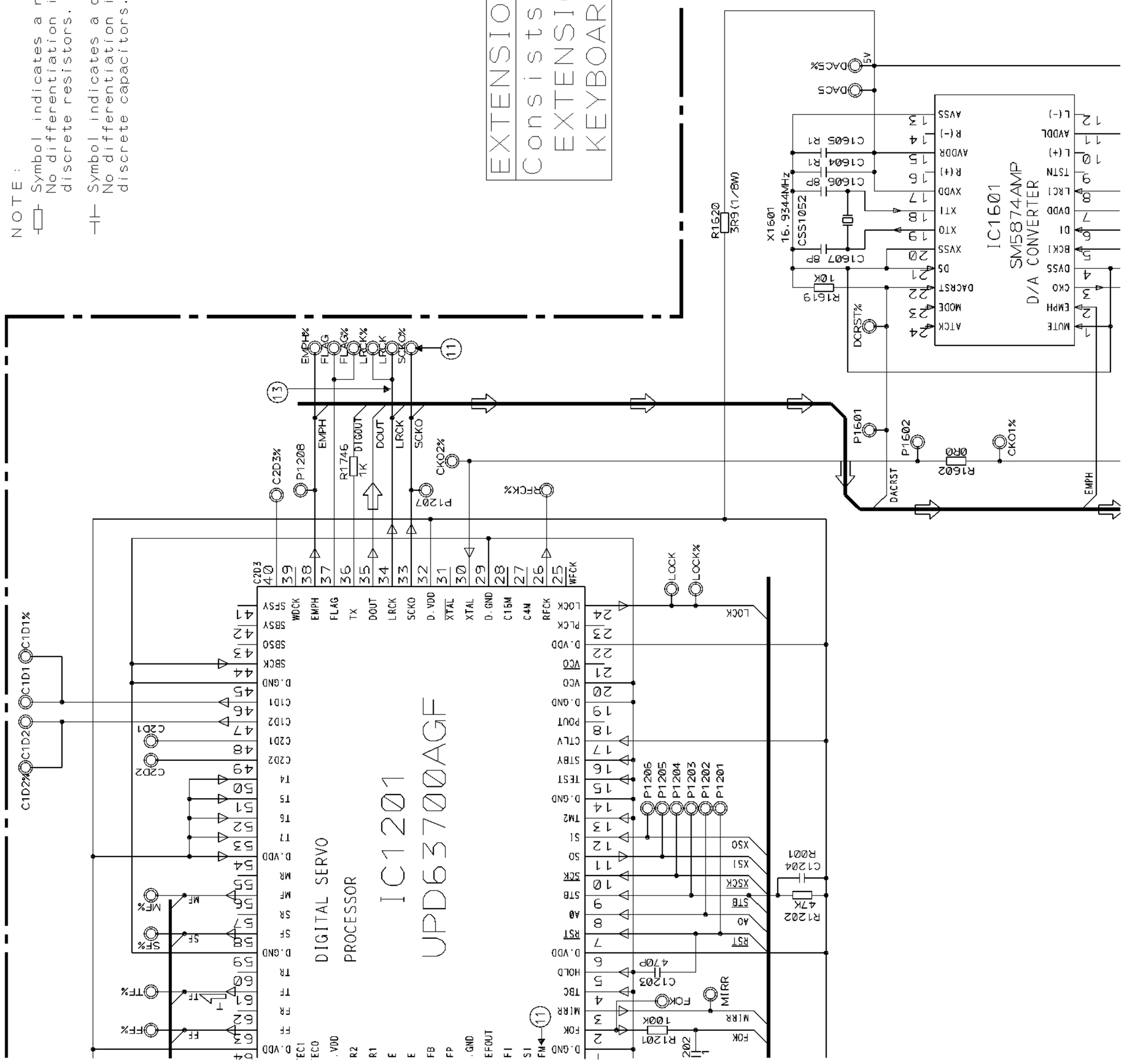
D-a D-b

Decimal points for resistor
and capacitor fixed values
are expressed as:
2.2→2R2
0.022→R022

NOTE:
- Symbol indicates a resistor.
  No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor.
  No differentiation is made between chip capacitors and discrete capacitors.

SWITCHES:
MECHANISM PCB
S805:HOME SWITCH
PHOTO PCB
S801:RSTP SWITCH
S802:MAG SWITCH
MISCELLANEOUS
S803:TRP SWITCH
S804:DSP SWITCH
The underlined indicates the switch position.

EXTENSION UNIT
Consists of
EXTENSION PCB
KEYBOARD PCB



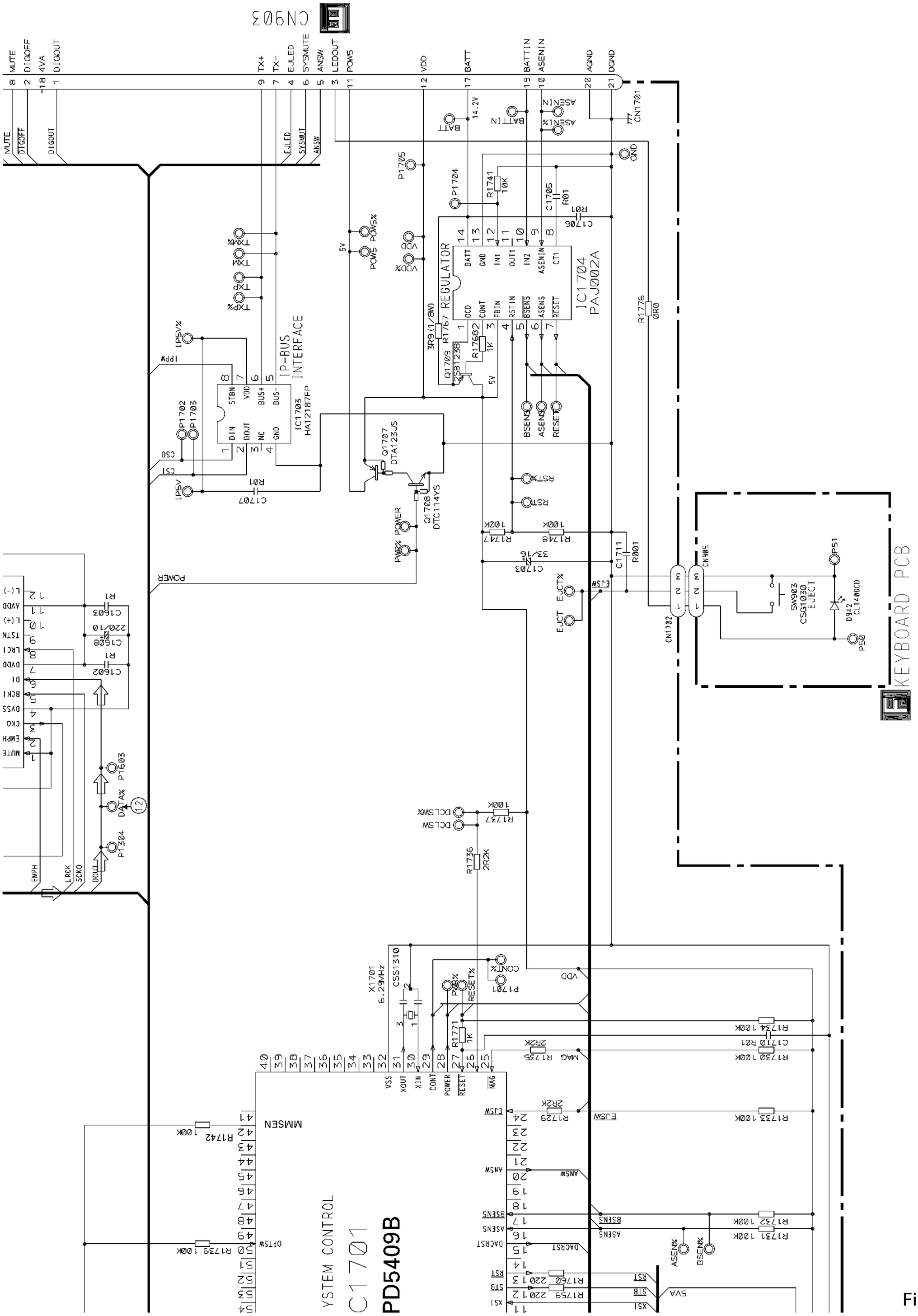
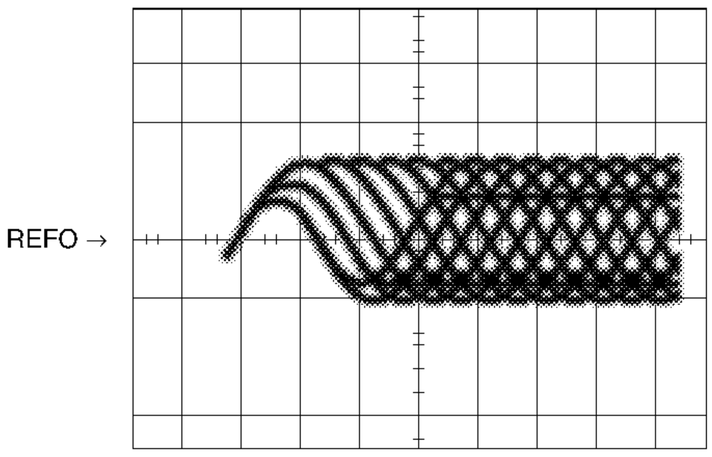

CN903
MUTE
DIGOFF
4VA
DIGOUT
TX+
TX-
EJLED
SYSMUTE
ANSW
LEDOUT
POWS
VDD
BATT
BATTIN
ASENIN
AGND
DGND
CN1701
14.2V
P1705
P1704
R1741 10K
C1705 R01
C1706 R01
GND
IC1704 PAJ002A
REGULATOR
BATT
GND
IN1
OUT1
IN2
ASENIN
CT1
OCD
CONT
FBIN
RSTIN
BSENS
ASENS
RESET
Q1709 2SB1238
R1767 3R9(1/8W)
R17682 1K
5V
R1776 0R0
IP-BUS INTERFACE
IC1703 HA12187FP
STBN
VDD
BUS+
BUS-
DIN
DOUT
NC
GND
P1702
P1703
CSO
CSI
C1707 R01
Q1707 DTA123JS
Q1708 DTC114YS
POWER
RST
R1747 100K
R1748 100K
C1703 33/16
C1711 R001
EJCT
EJSW
CN1702
CN905
SW903 CSG1030 EJECT
D942 CL140GCD
P51
P50
KEYBOARD PCB
R1603 220/10
C1602
C1603
P1603
P1304
DATA%
EMPH
LRCK
SCKO
DOUT
DCLSW
R1737 100K
R1736 2R2K
X1701 6.29MHz
CSS1310
CONT%
P1701
RESET%
R1771 1K
R1734 100K
C1710 R01
R1730 100K
R1735 2R2K
R1733 100K
R1732 100K
R1731 100K
R1729 2R2K
R1742 100K
R1739 100K
R1760 220
R1759 220
MMSEN
OPTSW
SYSTEM CONTROL
C1701
PD5409B

Fig. 11

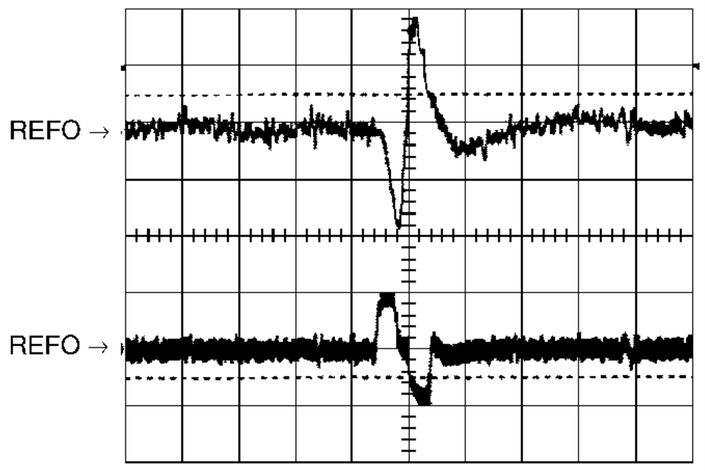
Note:1. The encircled numbers denote measuring pointes in the circuit diagram.
2. Reference voltage
REFO:2.5V

● Waveforms

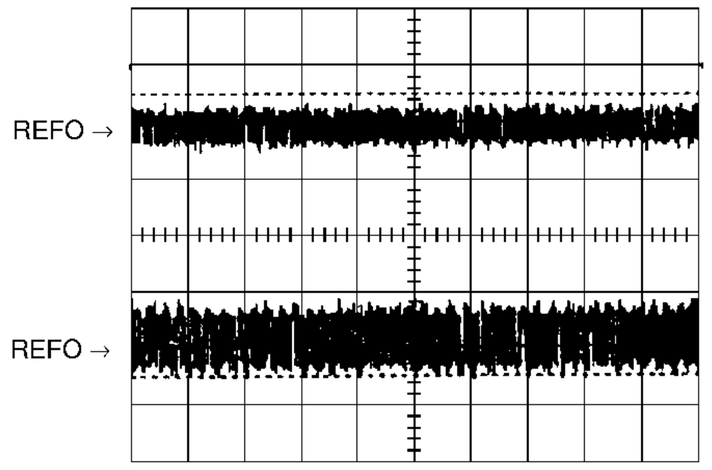
① RFO 0.5V/div. 0.5µs/div.
Normal mode: play



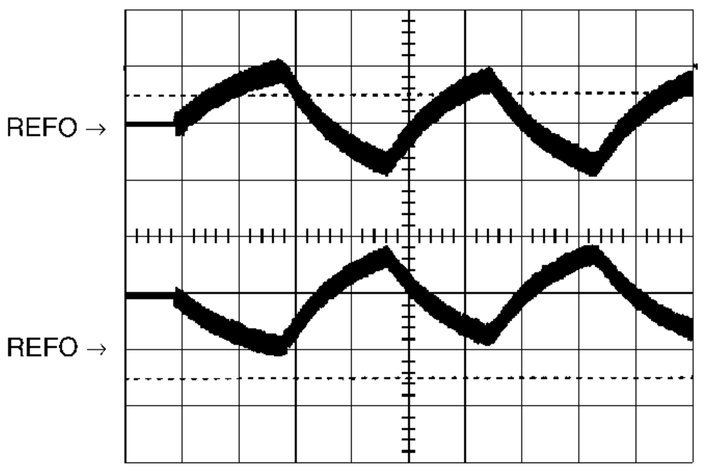
④ CH1: TEY 0.5V/div. 0.5ms/div.
⑤ CH2: TIN 1V/div.
Test mode: Single jump (FWD)



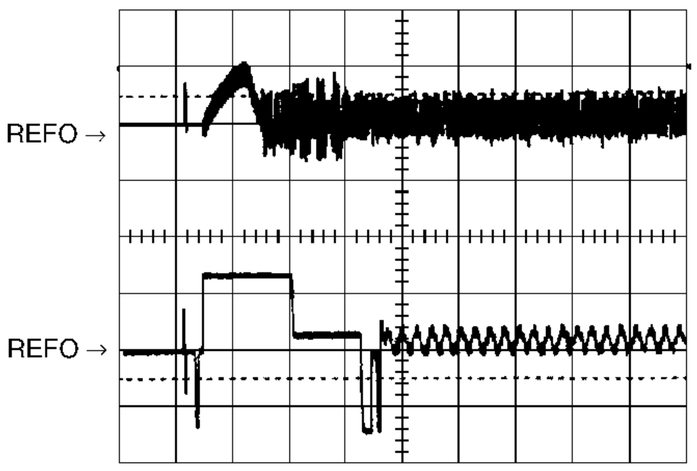
④ CH1: TEY 0.5V/div. 20ms/div.
⑤ CH2: TIN 0.5V/div.
Normal mode: Play



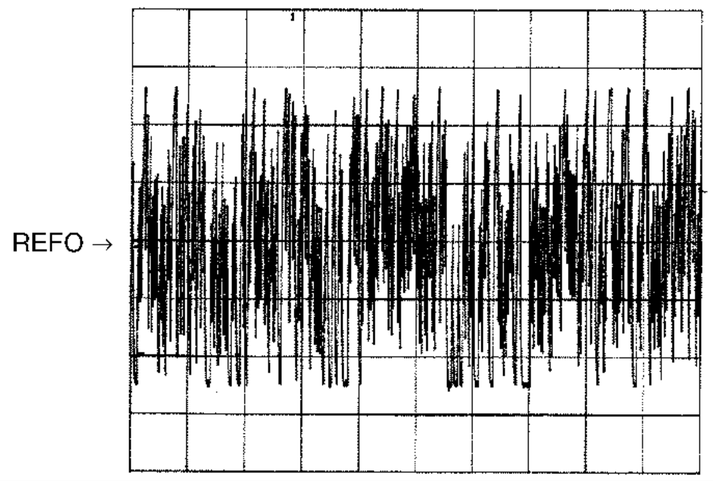
② CH1: FIN 1V/div. 0.2s/div.
③ CH2: FO+ 2V/div.
Test mode: No disc, Focus close



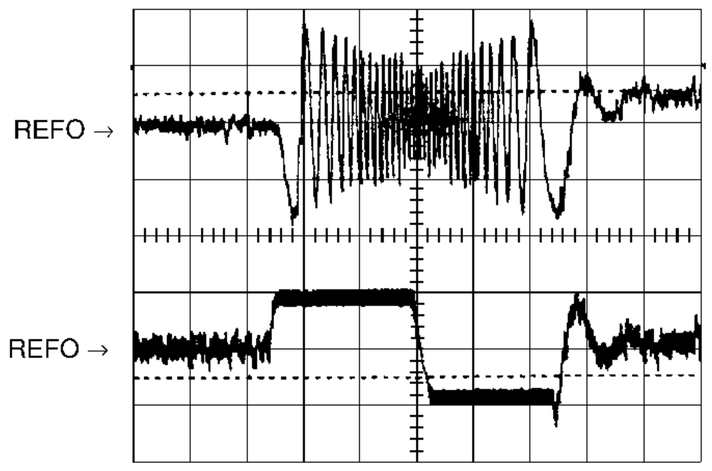
② CH1: FIN 1V/div. 0.5s/div.
⑦ CH2: SIN 1V/div.
Normal mode: Focus close (12cm)



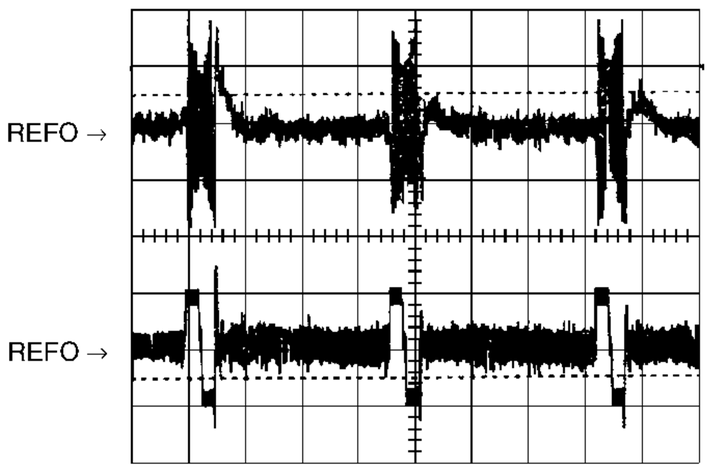
⑦ SIN 0.5V/div. 10ms/div.
Search (12cm disc)



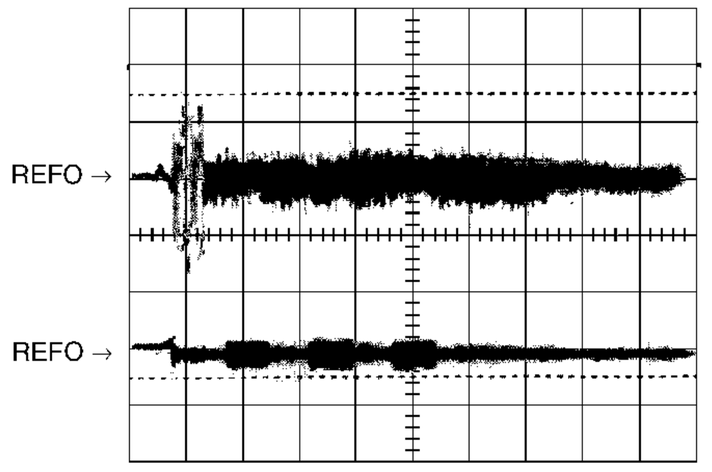
④ CH1: TEY 0.5V/div. 0.5ms/div.
⑤ CH2: TIN 1V/div.
Test mode: 32 track jump (FWD)



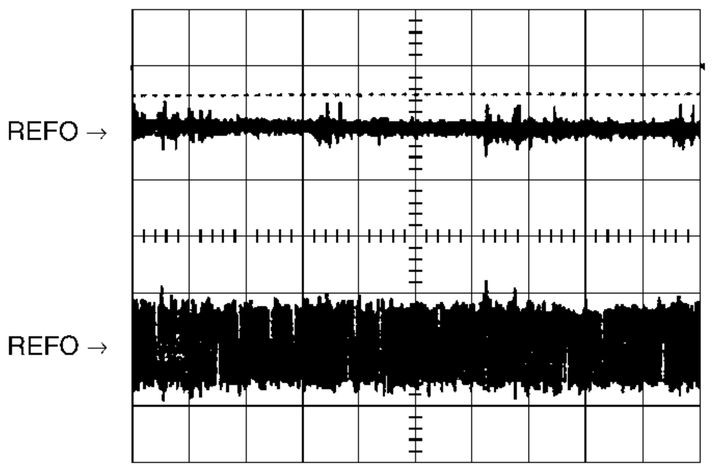
④ CH1: TEY 0.5V/div. 5ms/div.
⑤ CH2: TIN 1V/div.
Test mode: 100 track jump (FWD)



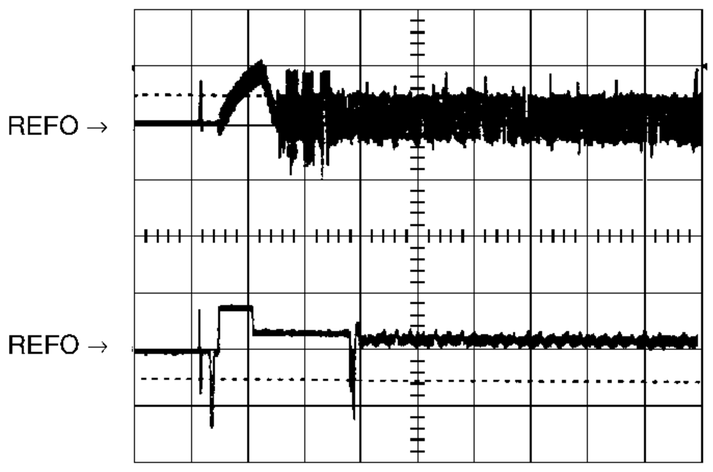
④ CH1: TEY 0.5V/div. 0.1s/div.
⑥ CH2: FEY 0.5V/div.
Normal mode: AGC after focus close



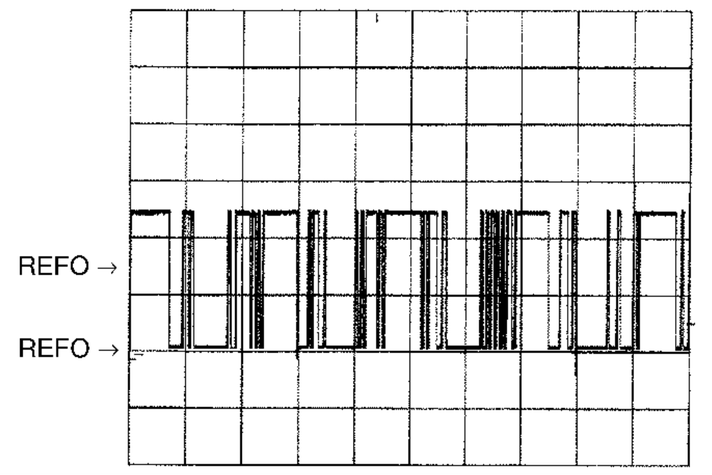
⑥ CH1: FEY 0.2V/div. 20ms/div.
② CH2: FIN 0.5V/div.
Normal mode: Play



② CH1: FIN 1V/div. 0.5s/div.
⑦ CH2: SIN 1V/div.
Normal mode: Focus close (8cm)



⑫ DATA 2V/div. 10µs/div.
Play



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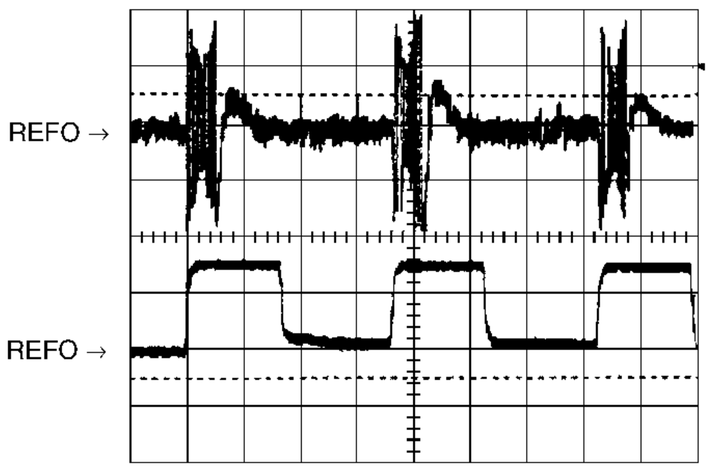
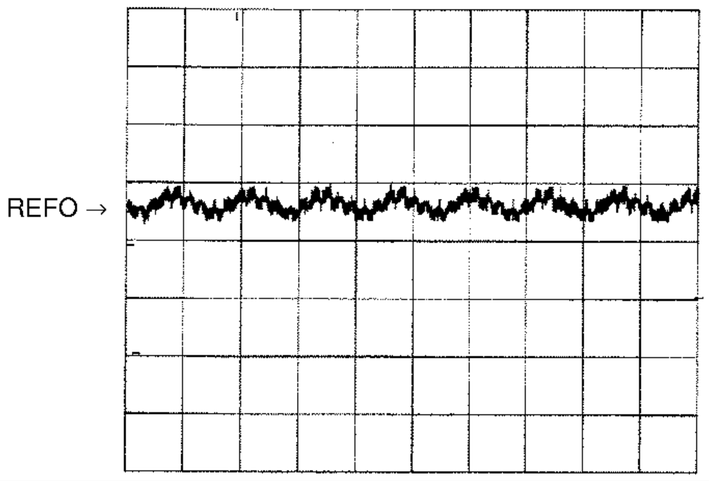
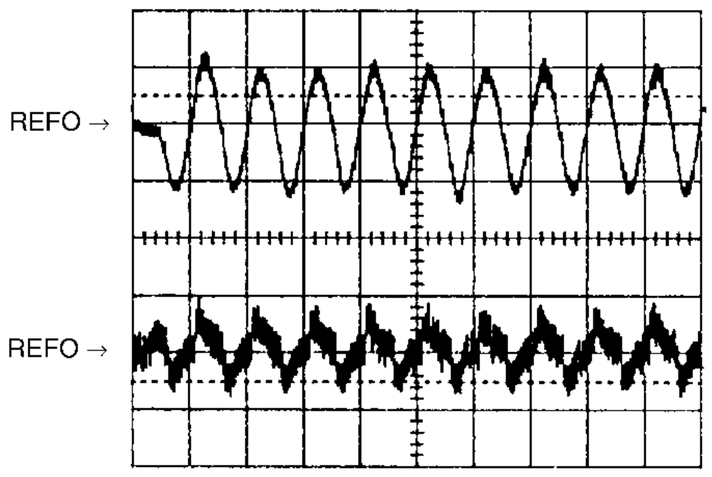
④ CH1: TEY 0.5V/div.
⑧ CH2: CIN 0.5V/div.
5ms/div.
Test mode: 100 track jump (FWD)



⑦ SIN 0.5V/div. 0.1s/div.

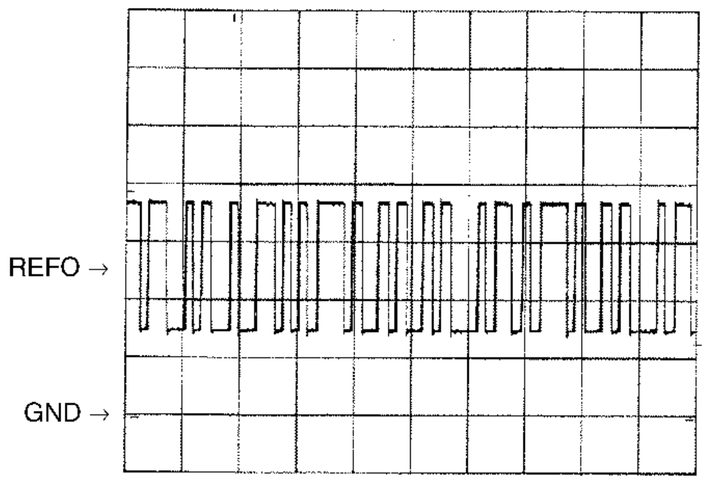


⑥ CH1: FEY 0.2V/div.
② CH2: FIN 1V/div.
1ms/div.
Normal mode: During AGC

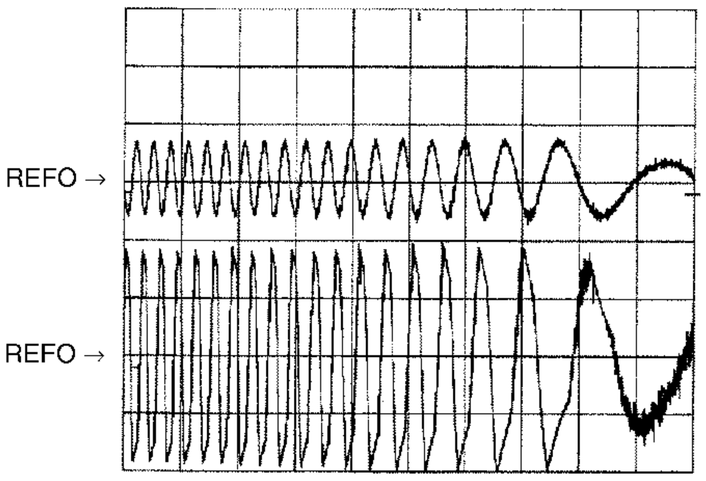


⑨ EFM 1V/div. 5µs/div.

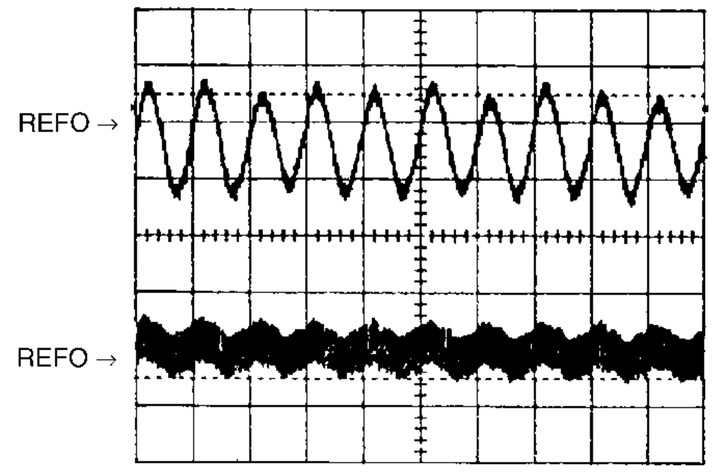
Play



④ CH1: TEY 1V/div.
⑩ CH2: TEC 1V/div.
2ms/div.
Test mode: Focus close
Tracking open

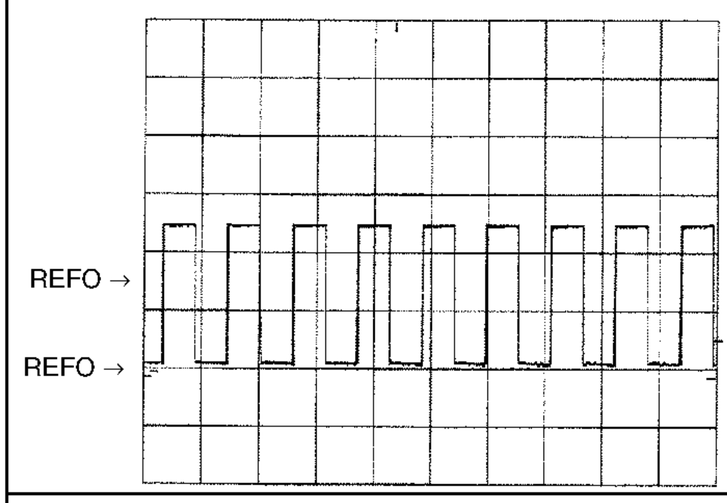


④ CH1: TEY 0.5V/div.
⑤ CH2: TIN 0.5V/div.
1ms/div.
Normal mode: During AGC



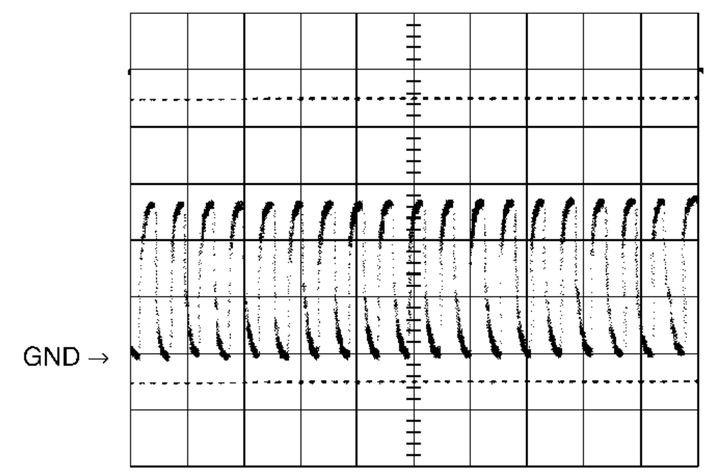
⑬ LRCK 2V/div. 20µs/div.

Play



⑪ SCKO 2V/div. 1µs/div.

Play



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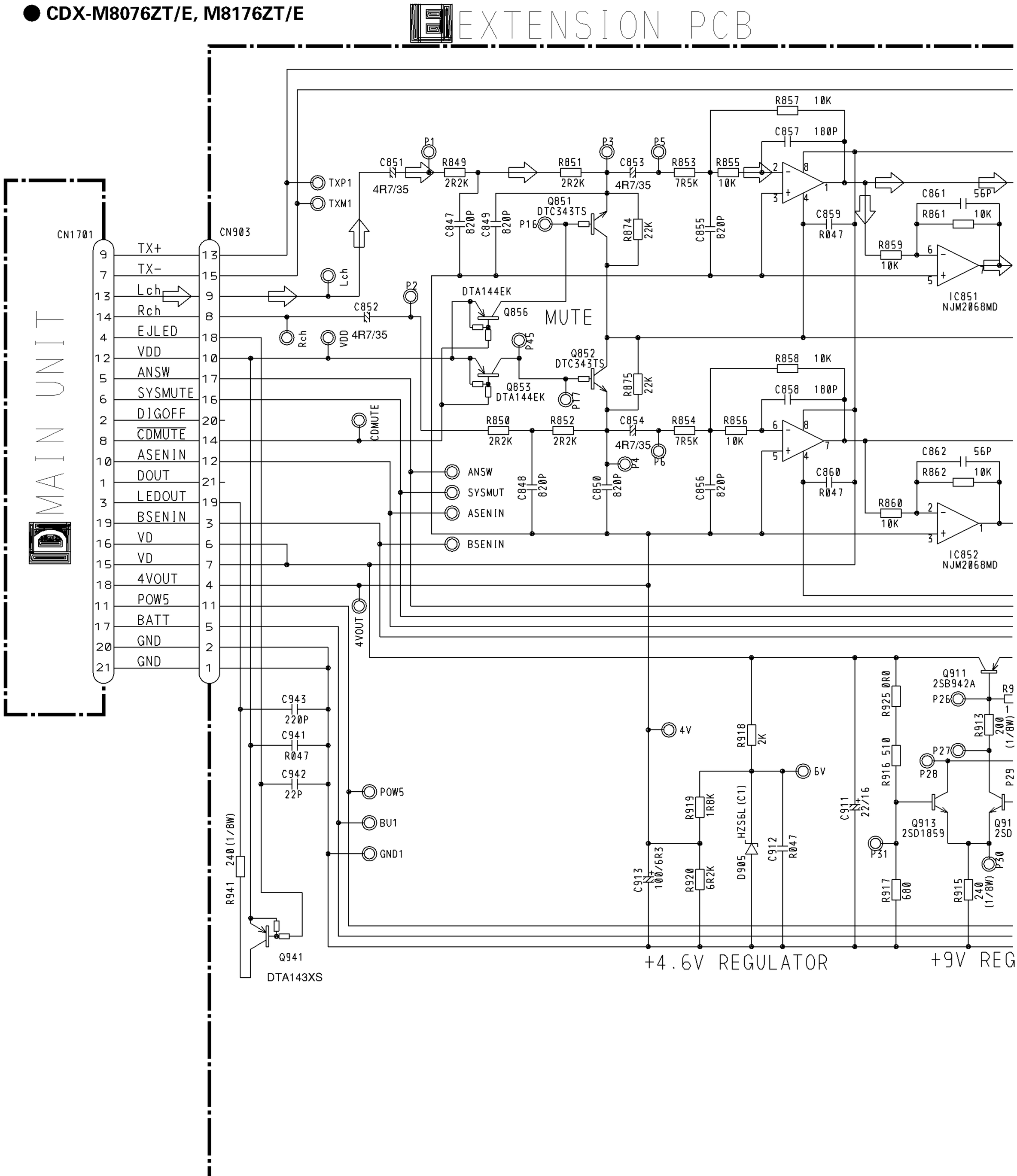
3.2 EXTENSION PCB

● CDX-M8076ZT/E, M8176ZT/E



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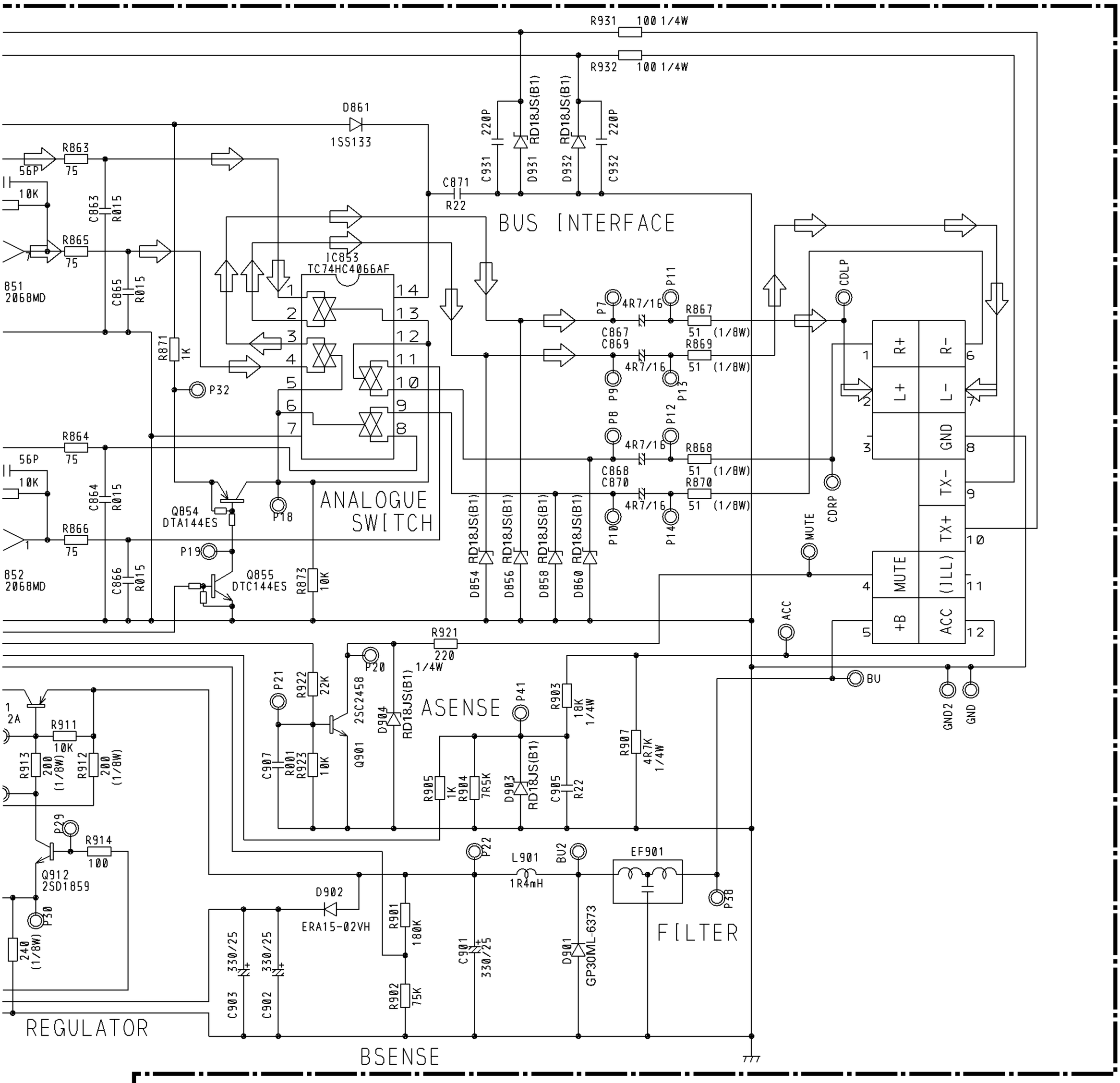


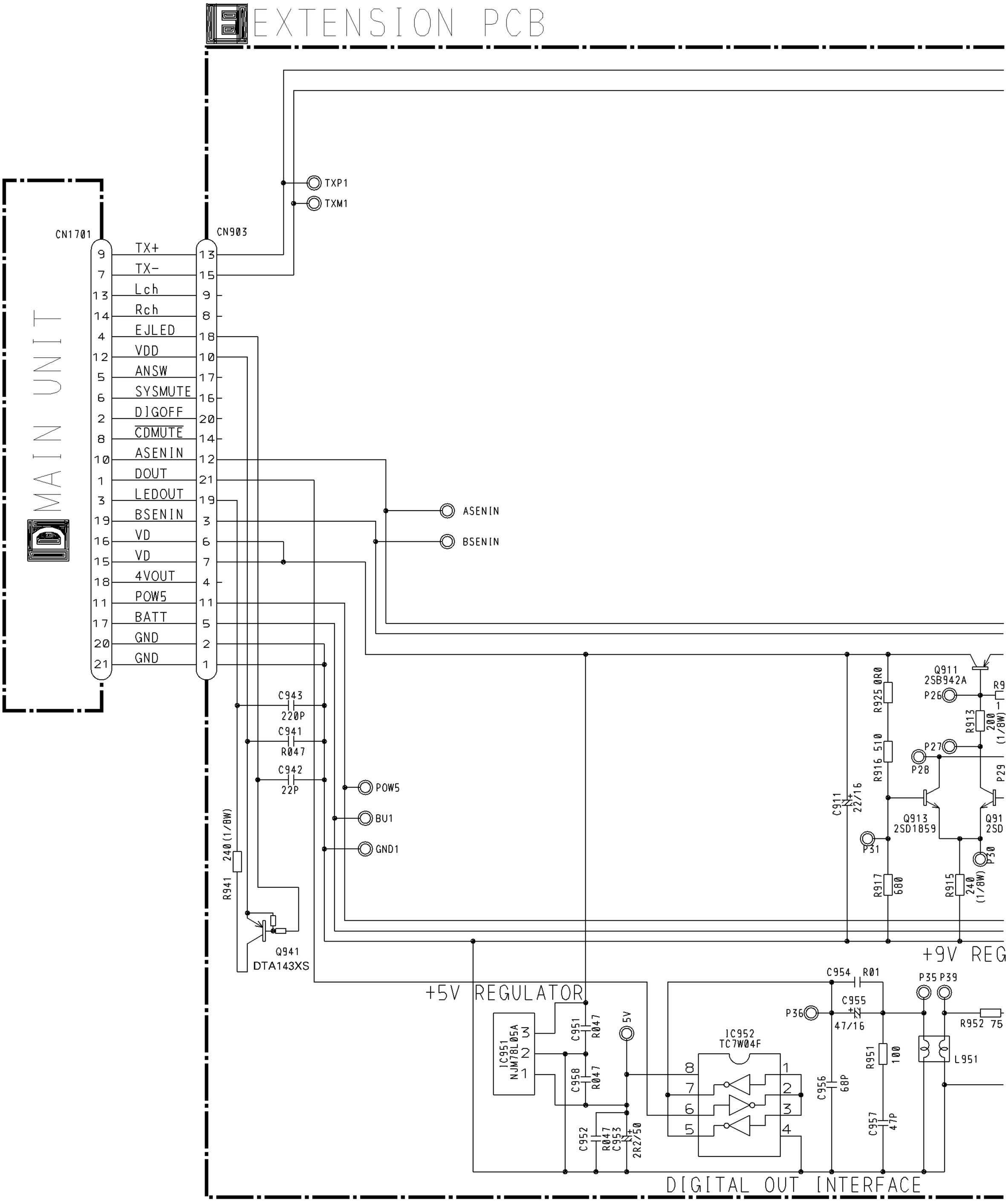
EXTENSION UNIT

Consists of
EXTENSION PCB
KEYBOARD PCB

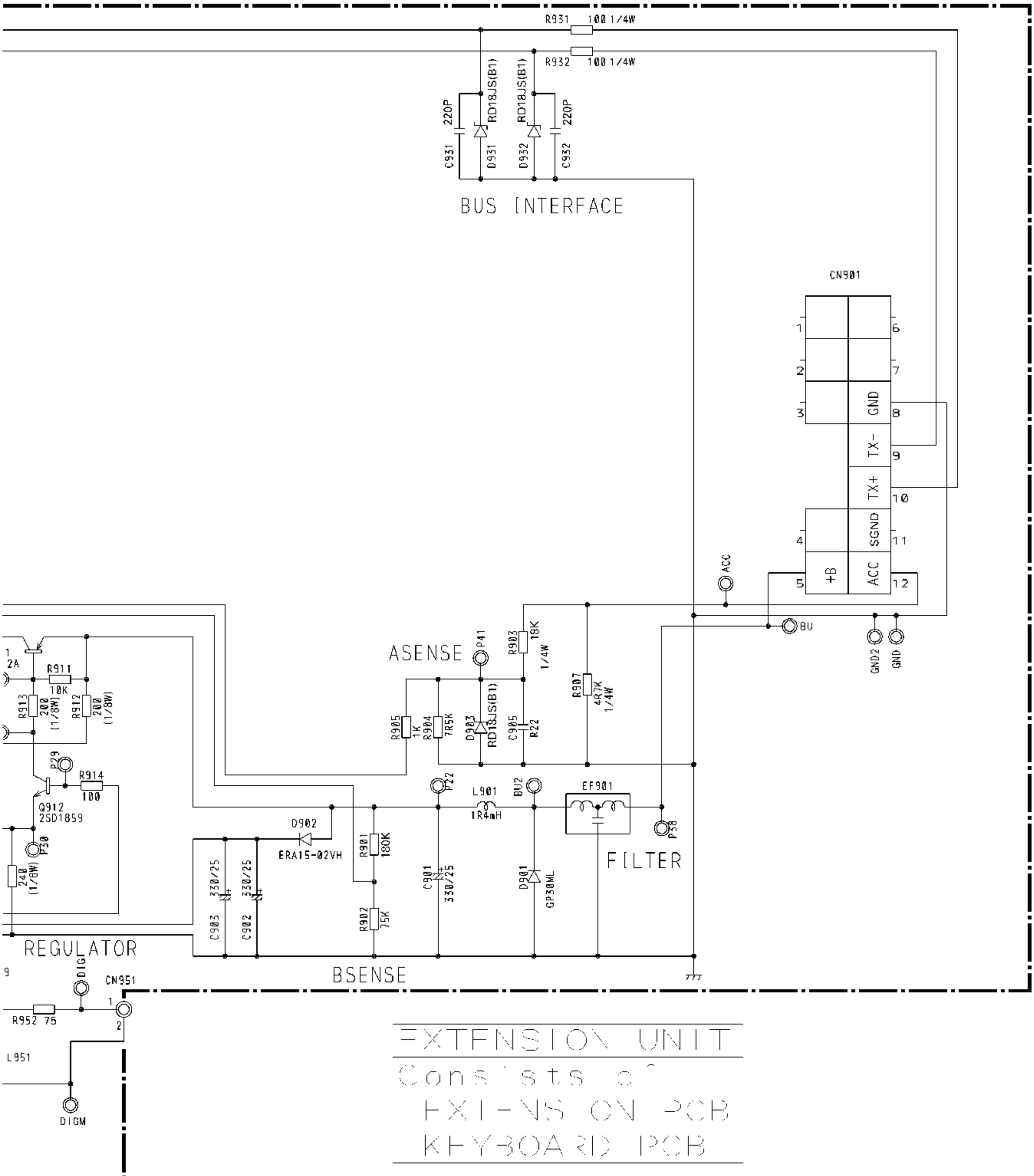
Fig. 12

ClibPDF - www.fastio.com

● CDX-M8476ZT/UC



ClibPDF - www.fastio.com



EXTENSION UNIT

Consists of

EXT-NS ON PCB

KEYBOARD PCB

Fig. 13

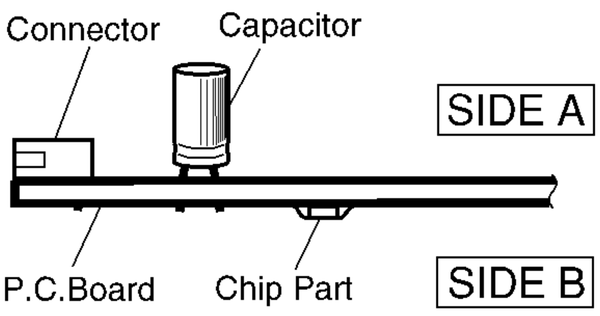
ClibPDF - www.fastio.com

4. PCB CONNECTION DIAGRAM

4.1 MAIN UNIT

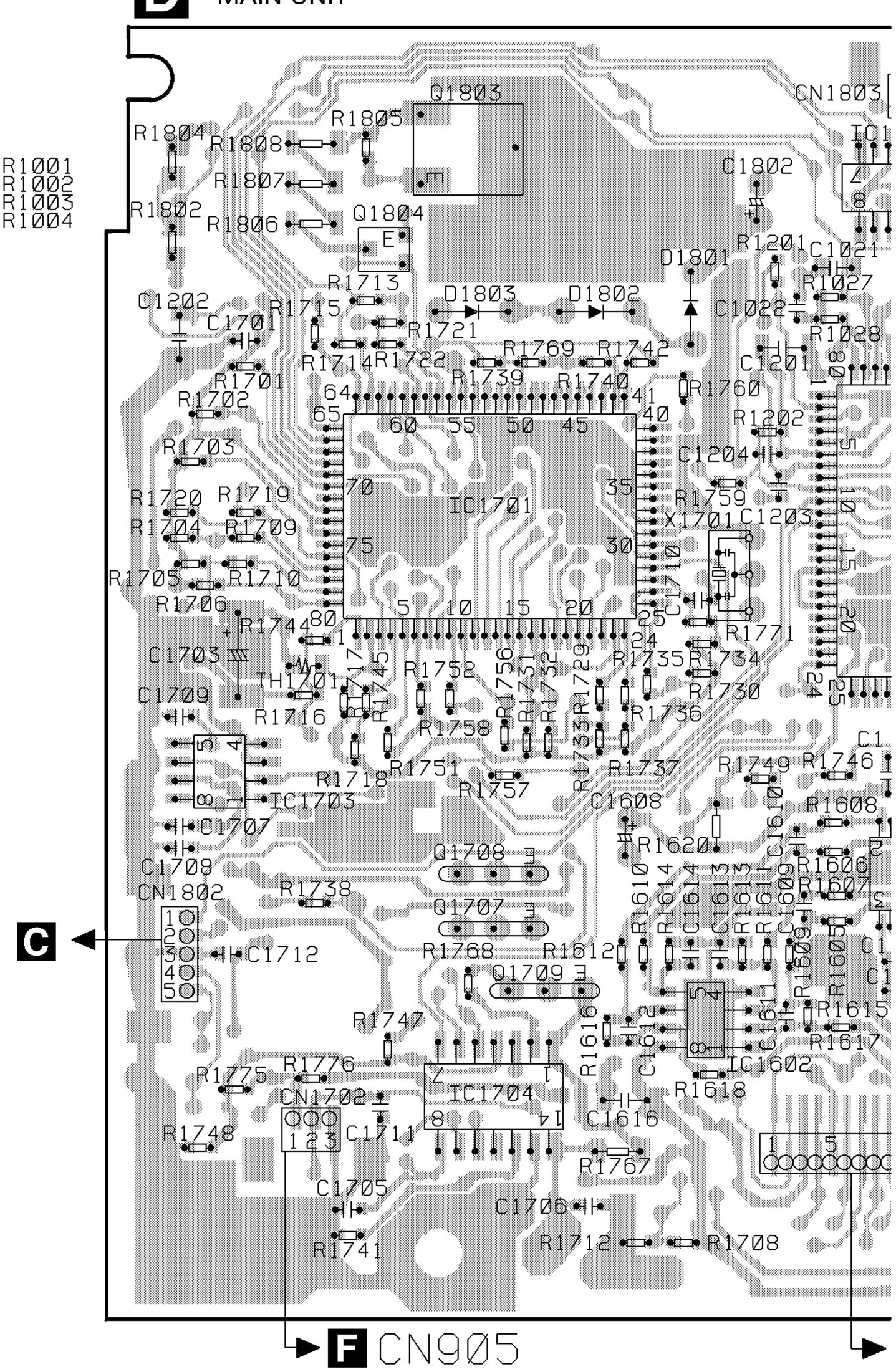
NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams



IC, Q | ADJ

Q1803
IC1801
Q1802
VR1001
VR1002
VR1003
VR1004
Q1804
Q1801
IC1001
IC1201
IC1701
Q1001
IC1703
Q1708
IC1601
Q1707
IC1401
Q1709
IC1602
IC1704
Q1401



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SIDE A

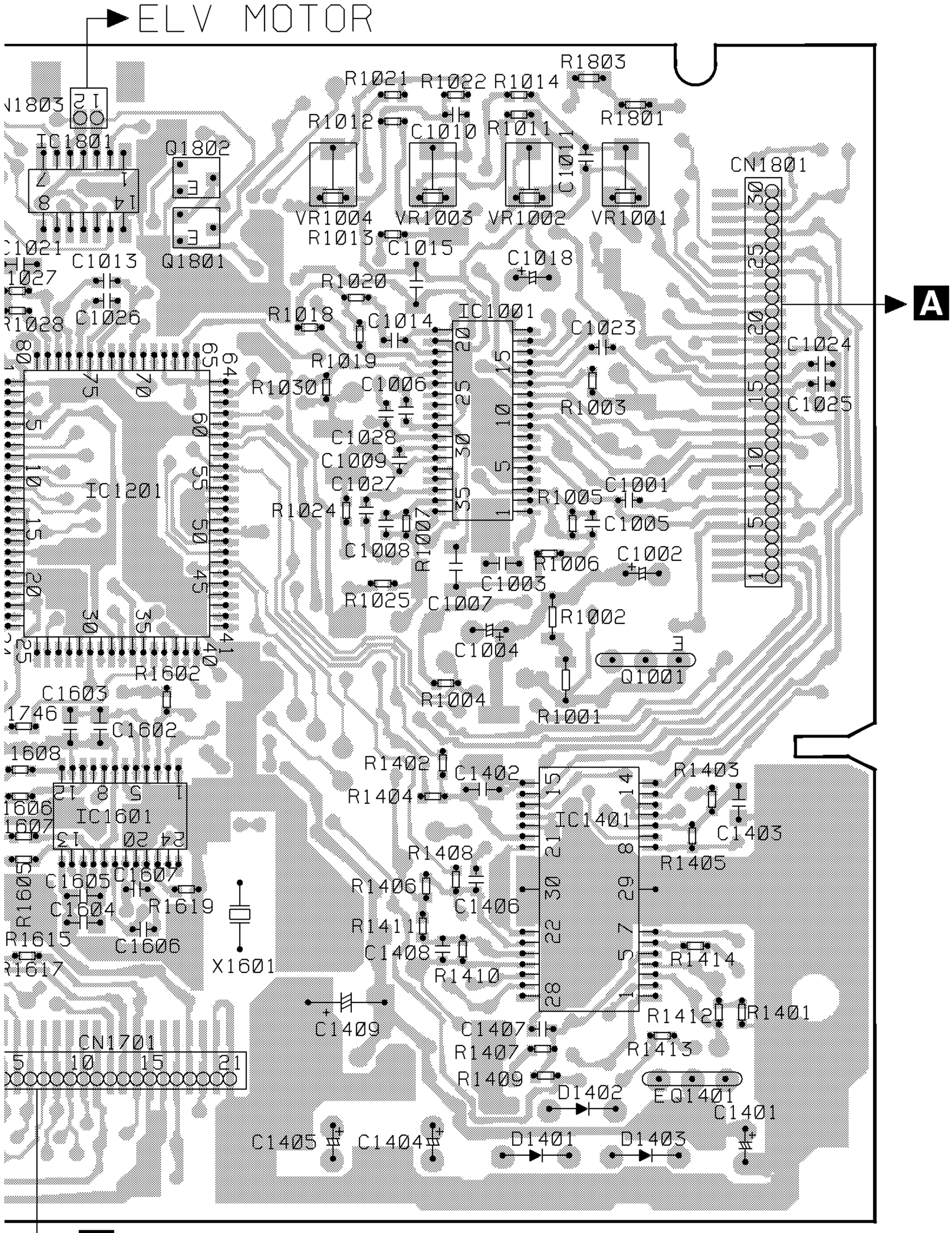

Fig. 14

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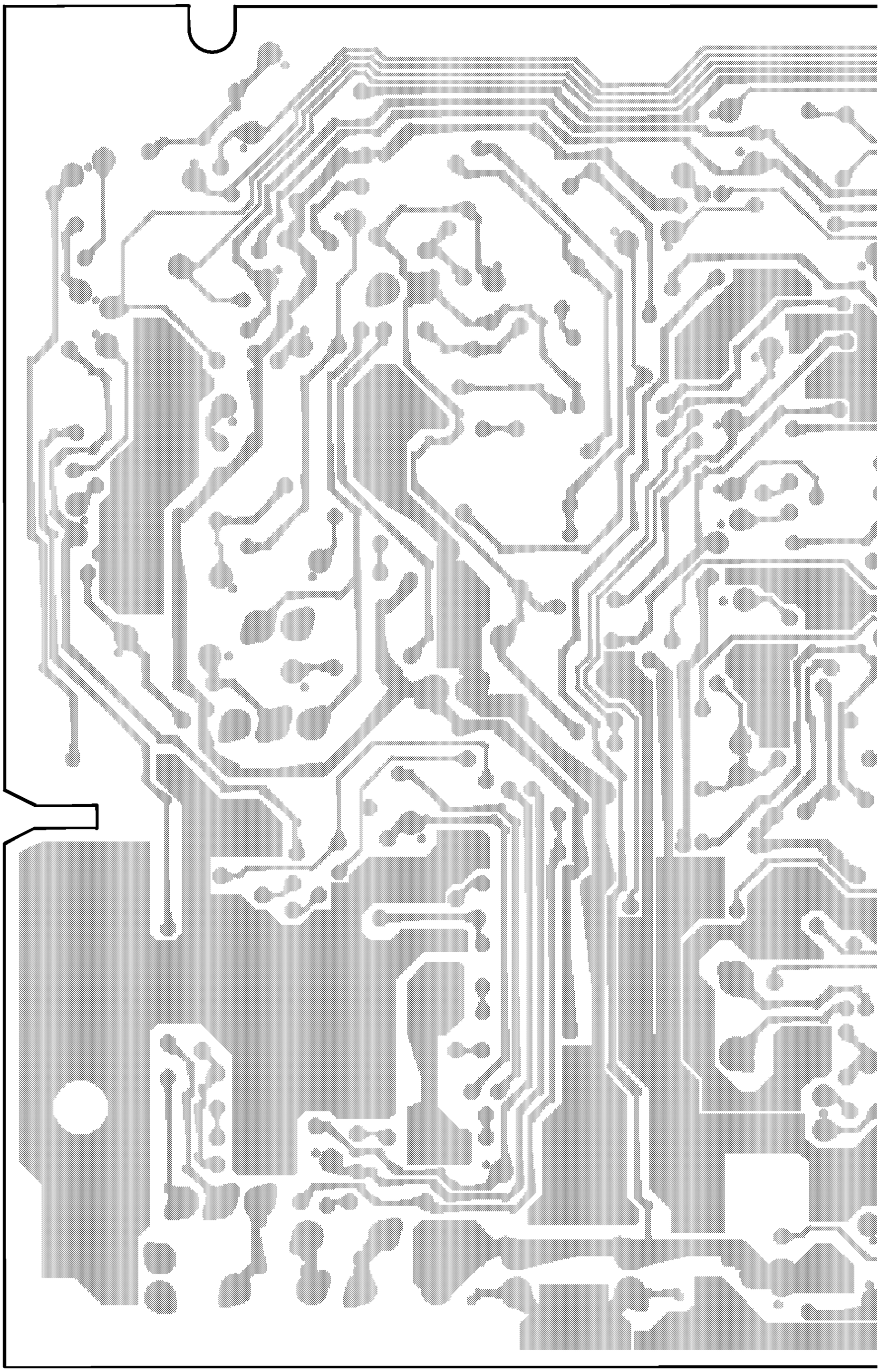
CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91,
CDX-M8476ZT,M8476ZT-91

D MAIN UNIT



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SIDE B

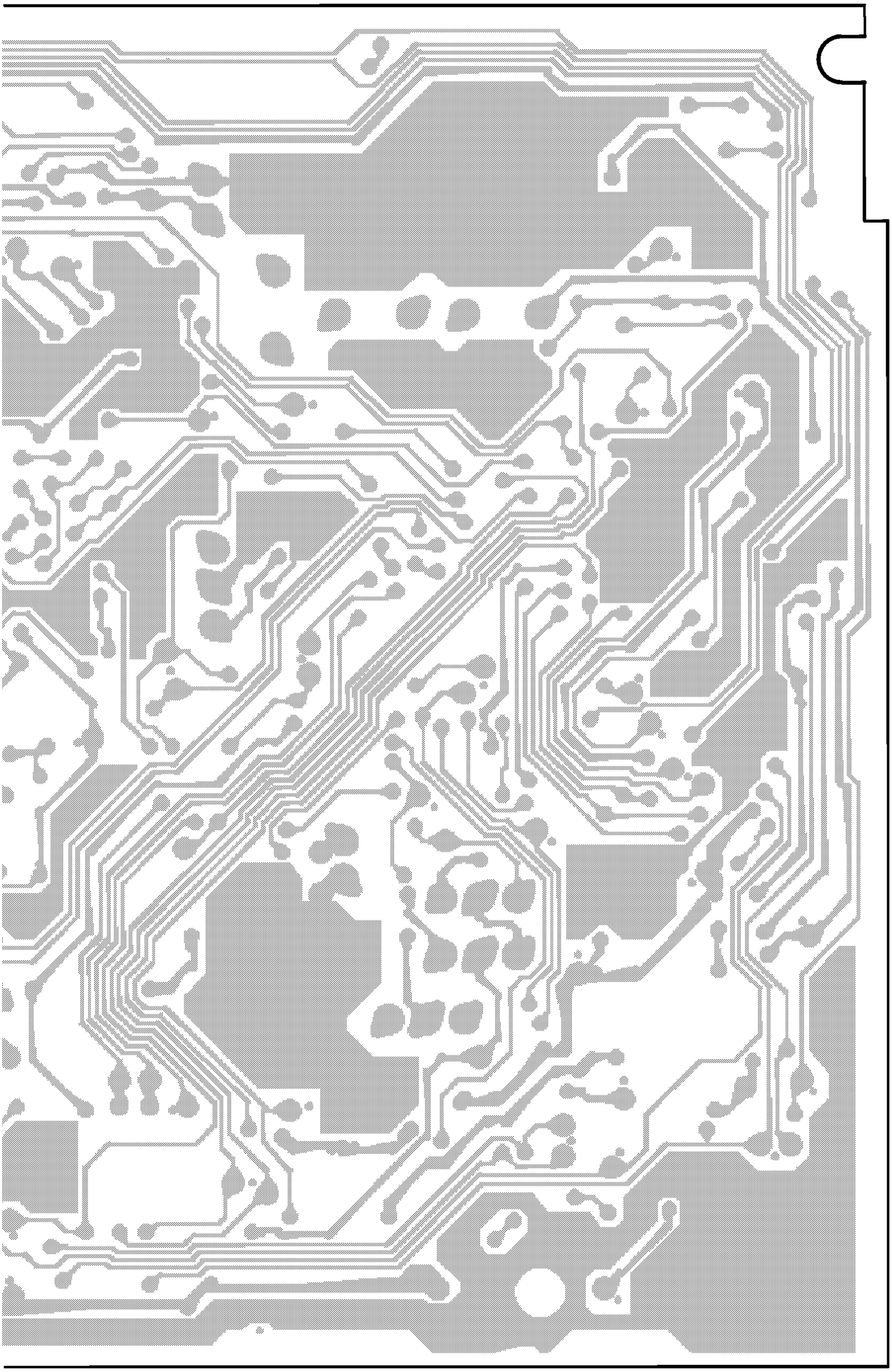

Fig. 15

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4.2 EXTENSION PCB

● CDX-M8076ZT/E, M8176ZT/E

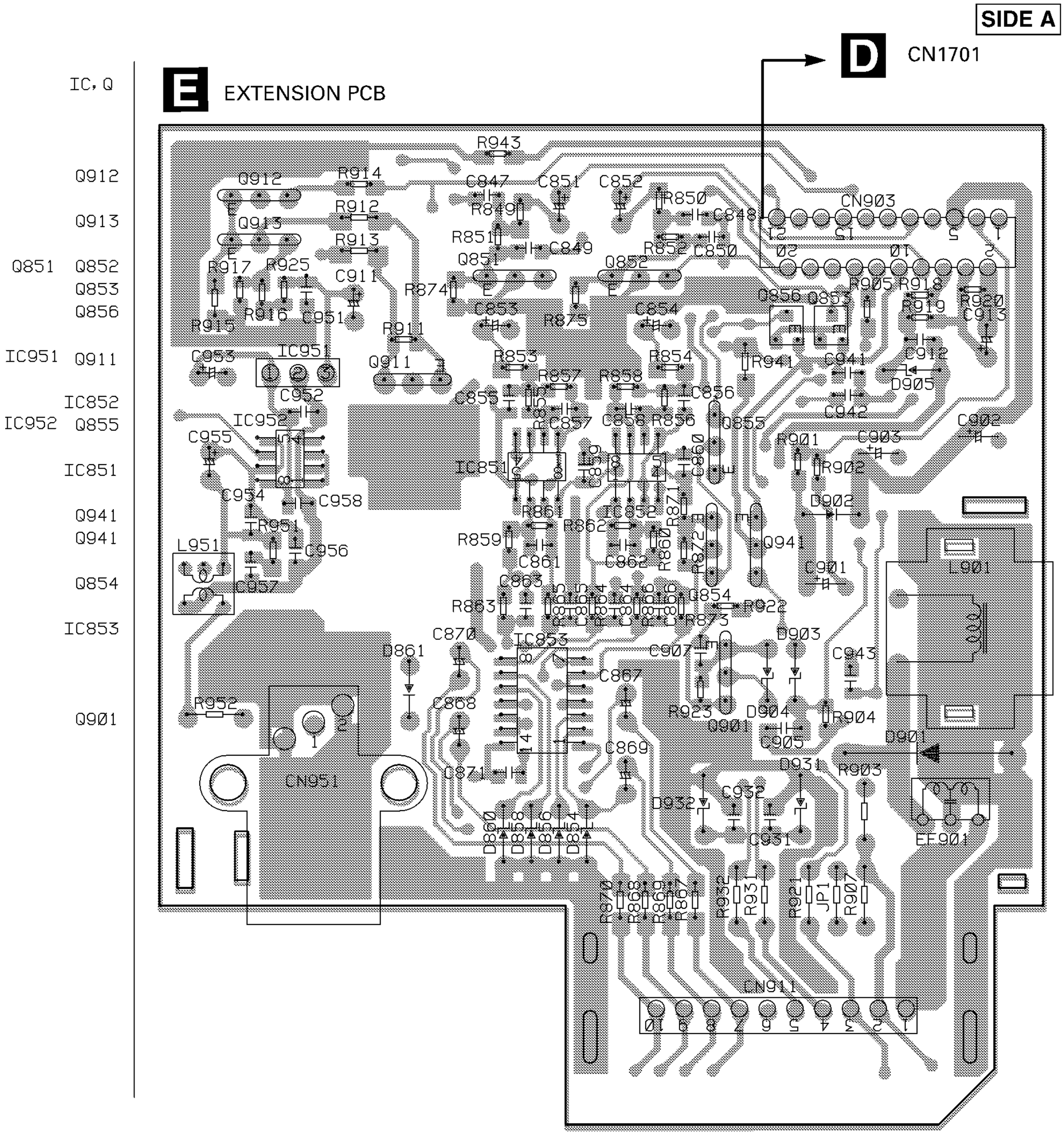

Fig. 16

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SIDE B

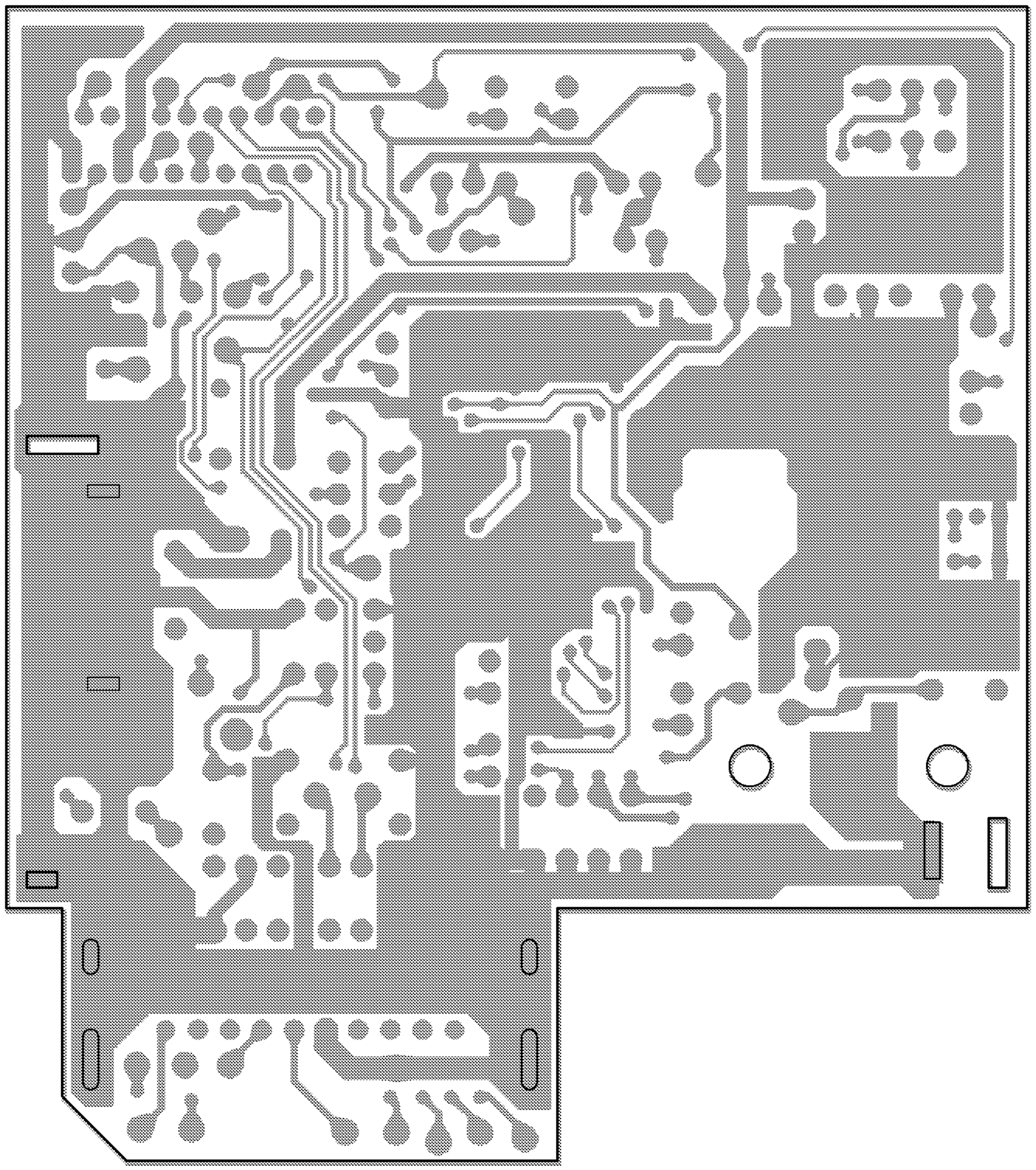

Fig. 17

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● CDX-M8476ZT/UC

IC, Q

Q912

Q913

Q851 Q852

Q856 Q853

IC951 Q911

IC952
Q855
IC851 IC852

Q854 Q941

Q901
IC853

SIDE A

E EXTENSION PCB

D CN1701

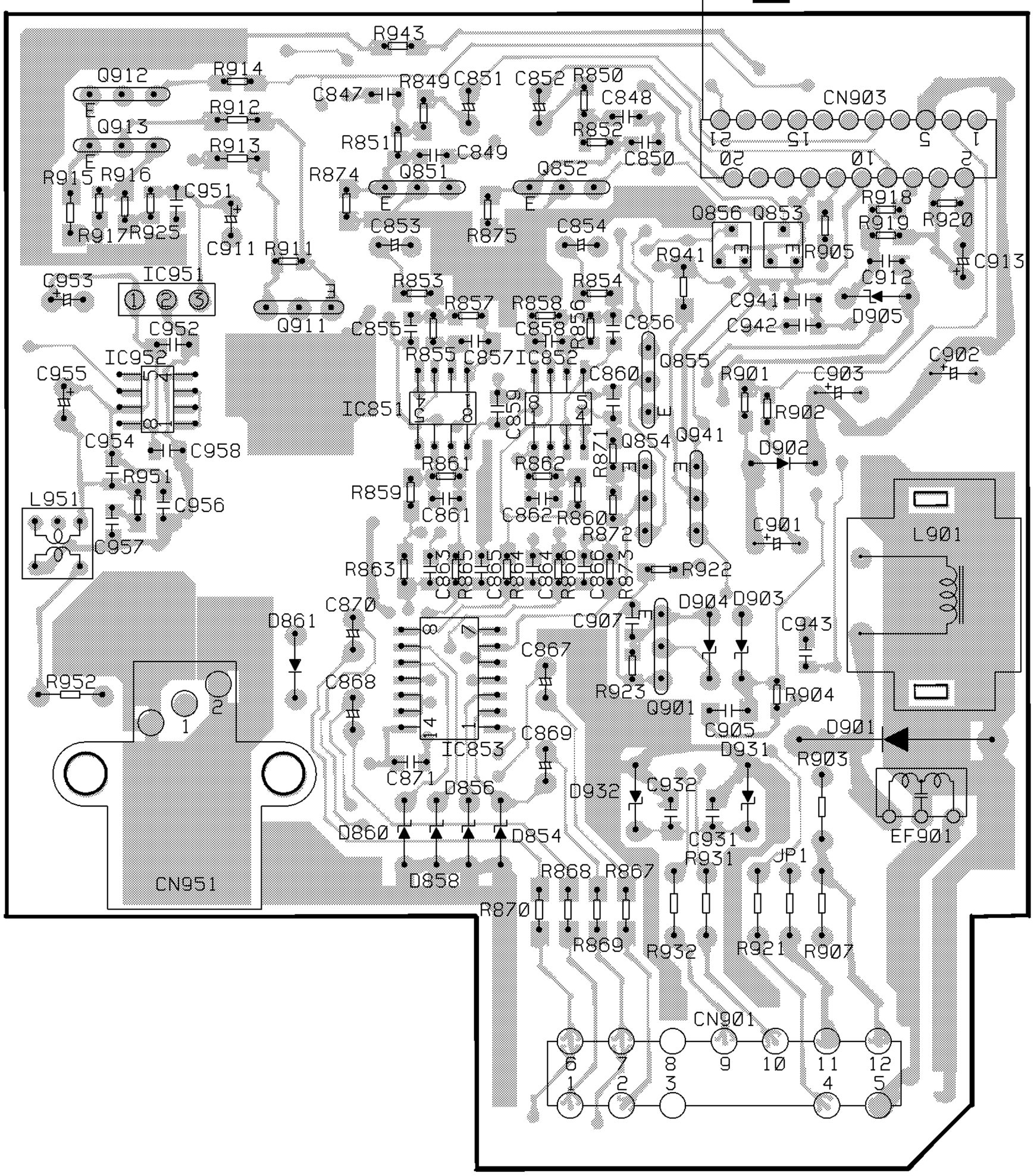

Fig. 18

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SIDE B

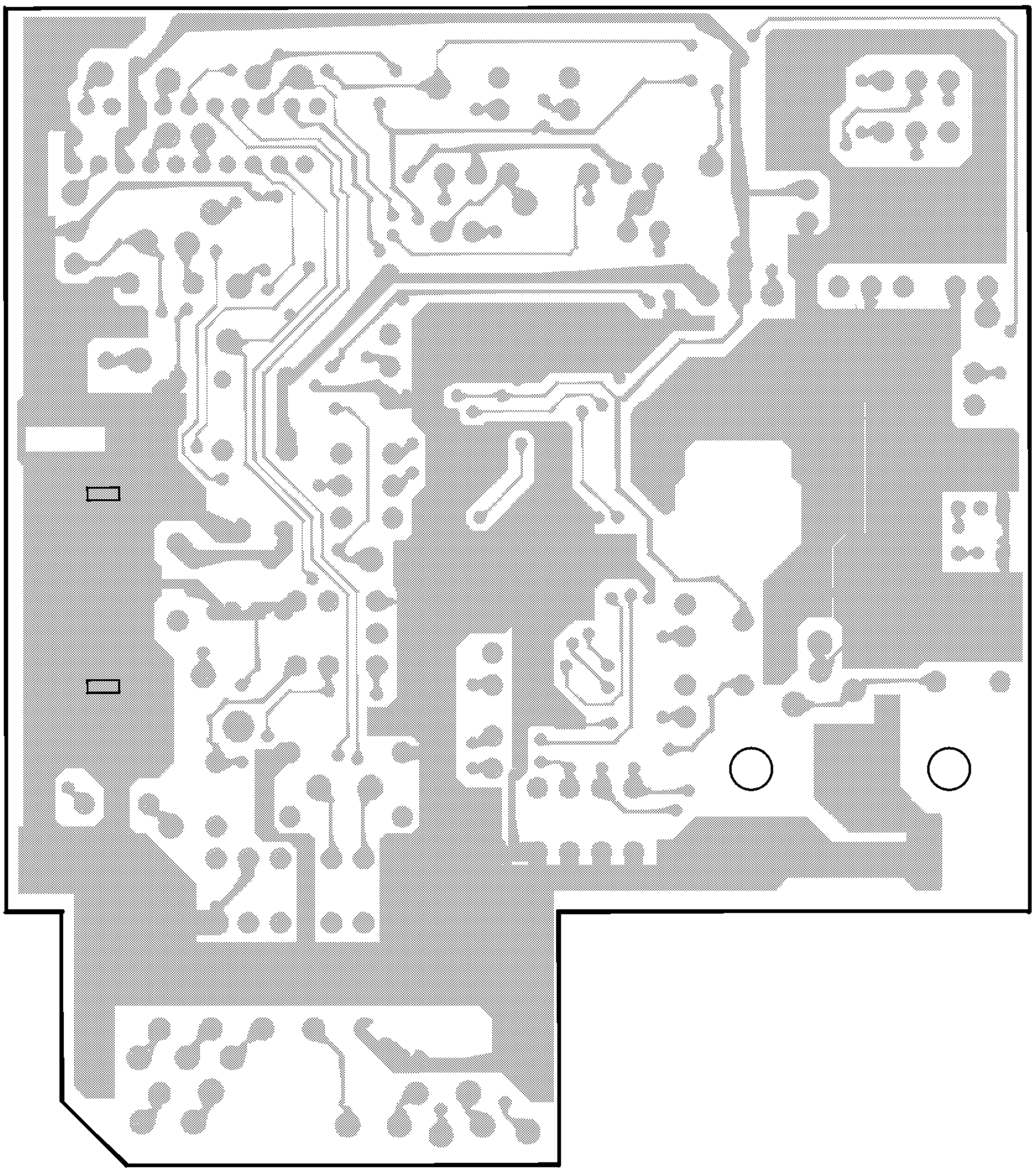

Fig. 19

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4.3 KEYBOARD PCB,PHOTO PCB

F KEYBOARD PCB

SIDE A

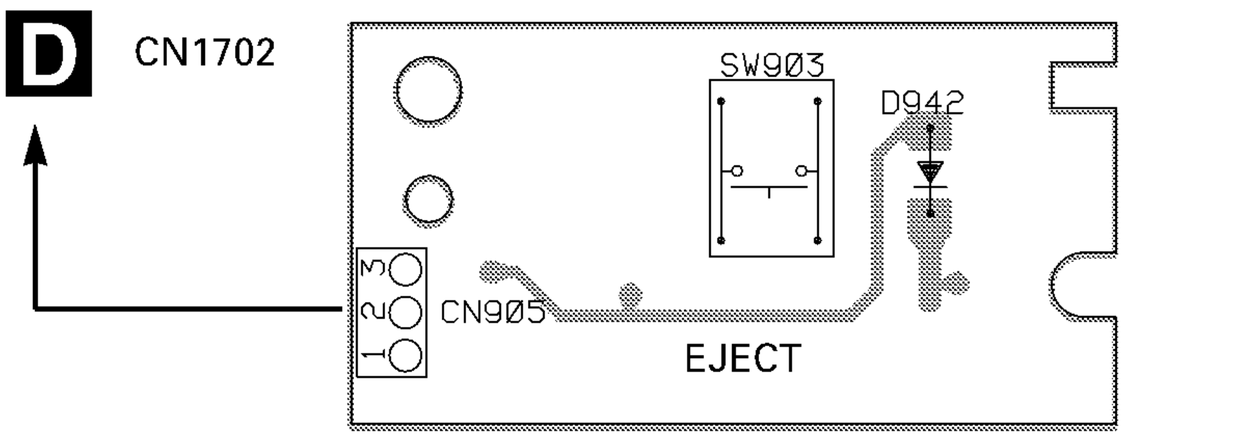

Fig. 20

F KEYBOARD PCB

SIDE B

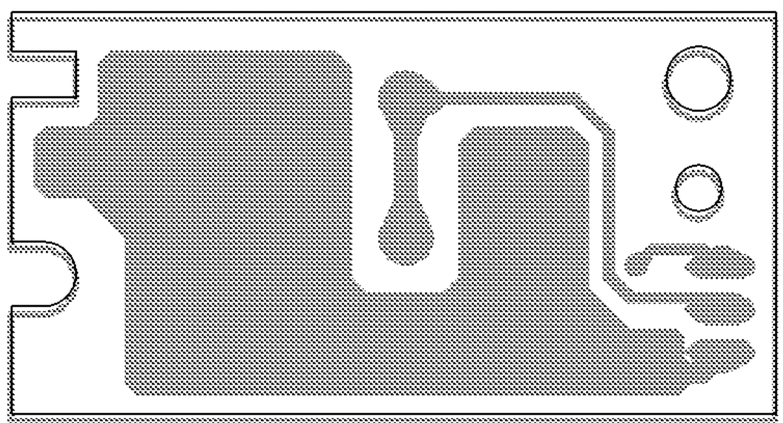

Fig. 21

C PHOTO PCB

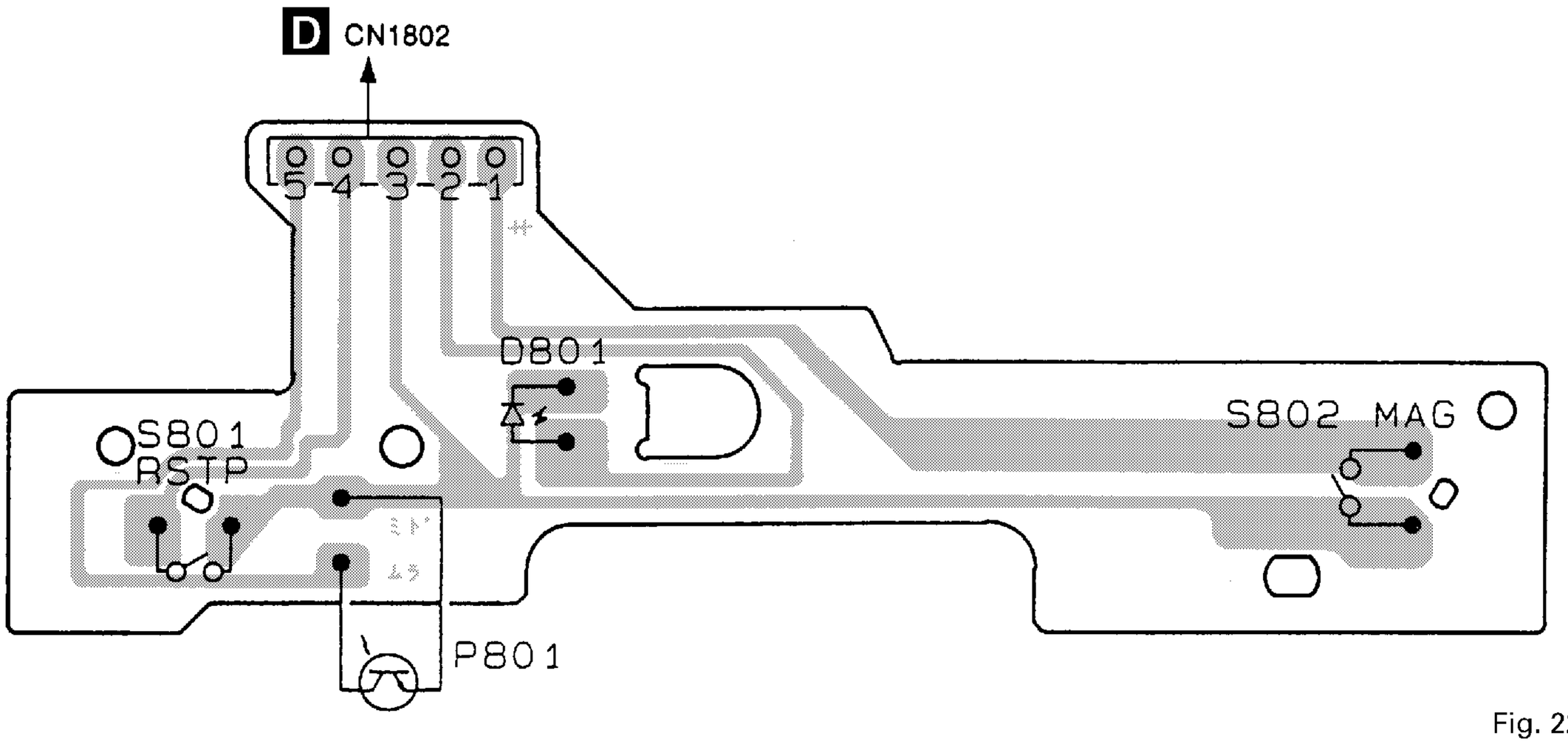

Fig. 22

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4.4 PCB UNIT,MECHANISM PCB

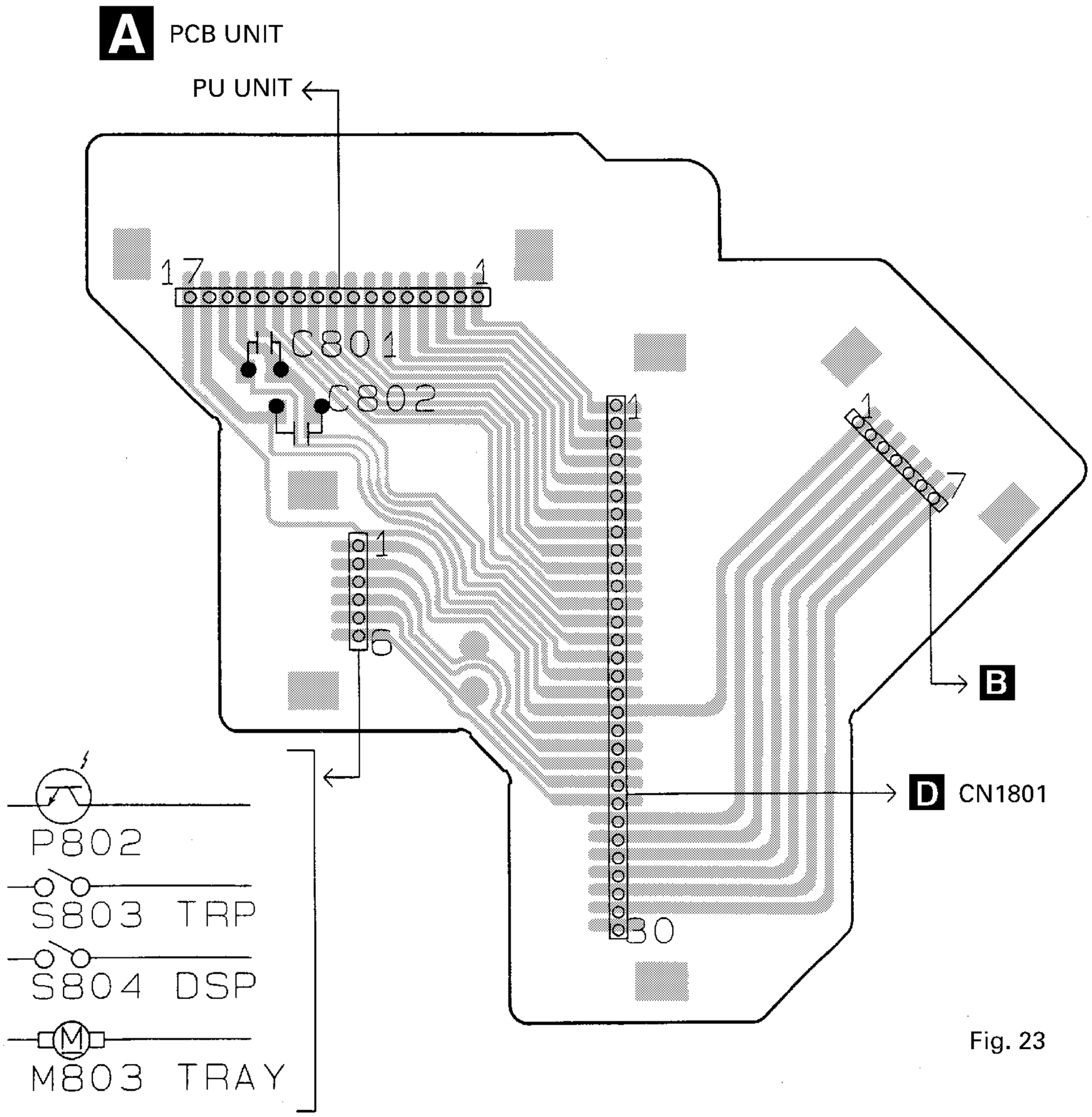

Fig. 23

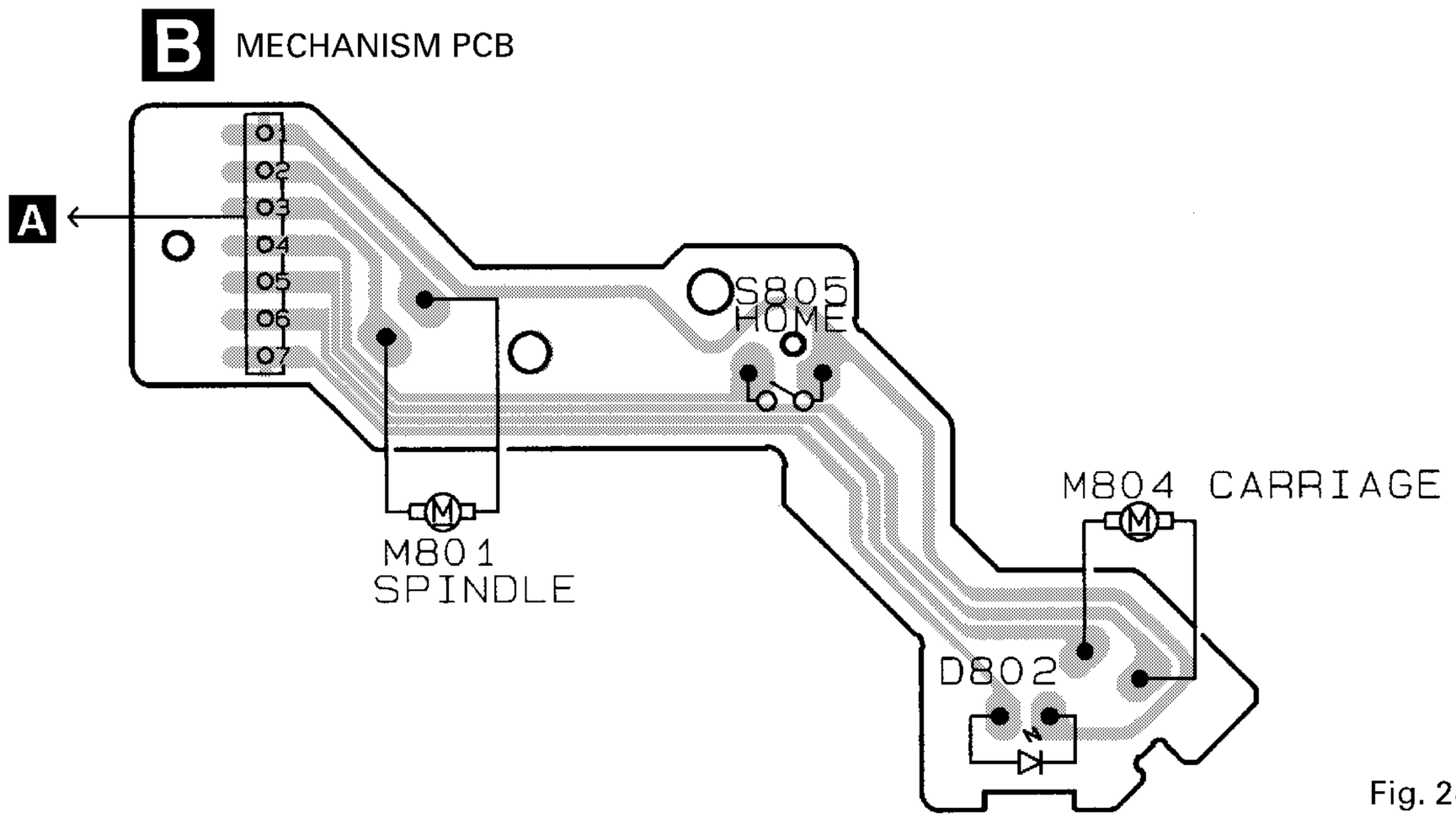

Fig. 24

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5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

  Chip Resistor

  RS1/○S○○○J,RS1/○○S○○○J

  Chip Capacitor (except for CQS.....)

  CKS....., CCS....., CSZS.....

Extension Unit
Consists of
Extension PCB
Keyboard PCB

E F Unit Number : CWX2040
Unit Name : Extension Unit
(CDX-M8076ZT/E, M8176ZT/E)

MISCELLANEOUS

IC	851	IC	NJM2068MD
IC	852	IC	NJM2068MD
IC	853	IC	TC74HC4066AF
Q	851	Transistor	DTC343TS
Q	852	Transistor	DTC343TS
Q	853	Transistor	DTA144EK
Q	854	Transistor	DTA144ES
Q	855	Transistor	DTC144ES
Q	856	Transistor	DTA144EK
Q	901	Transistor	2SC2458
Q	911	Transistor	2SB942A
Q	912	Transistor	2SD1859
Q	913	Transistor	2SD1859
Q	941	Transistor	DTA143XS
D	854	Diode	RD18JS(B1)
D	856	Diode	RD18JS(B1)
D	858	Diode	RD18JS(B1)
D	860	Diode	RD18JS(B1)
D	861	Diode	1SS133
D	901	Diode	GP30ML-6373
D	902	Diode	ERA15-02VH
D	903	Diode	RD18JS(B1)
D	904	Diode	RD18JS(B1)
D	905	Diode	HZS6L(C1)
D	931	Diode	RD18JS(B1)
D	932	Diode	RD18JS(B1)
D	942	LED	CL140GCD
L	901	Choke Coil 1.4mH	CTH1129
SW	903	Switch(Eject)	CSG1030
EF	901	EMI Filter	CCG1006

RESISTORS

R	849	RS1/10S222J
R	850	RS1/10S222J
R	851	RS1/10S222J
R	852	RS1/10S222J
R	853	RS1/10S752J
R	854	RS1/10S752J
R	855	RS1/10S103J
R	856	RS1/10S103J
R	857	RS1/10S103J
R	858	RS1/10S103J
R	859	RS1/10S103J
R	860	RS1/10S103J
R	861	RS1/10S103J
R	862	RS1/10S103J
R	863	RS1/10S750J
R	864	RS1/10S750J
R	865	RS1/10S750J
R	866	RS1/10S750J
R	867	RS1/8S510J
R	868	RS1/8S510J
R	869	RS1/8S510J
R	870	RS1/8S510J
R	871	RS1/10S102J
R	873	RS1/10S103J
R	874	RS1/10S223J
R	875	RS1/10S223J
R	901	RS1/10S184J
R	902	RN1/10SE7502D
R	903	RD1/4PU183J
R	904	RN1/10SE7501D
R	905	RS1/10S102J
R	907	RD1/4PU472J
R	911	RS1/10S103J
R	912	RS1/8S201J
R	913	RS1/8S201J
R	914	RS1/10S101J
R	915	RS1/8S241J
R	916	RN1/10SE5100D
R	917	RN1/10SE6800D
R	918	RS1/10S202J
R	919	RS1/10S182J
R	920	RS1/10S622J
R	921	RD1/4PU221J
R	922	RS1/10S223J
R	923	RS1/10S103J
R	925	RS1/10S0R0J
R	931	RD1/4PU101J
R	932	RD1/4PU101J
R	941	RS1/8S241J

CAPACITORS

C	847	CCSQCH821J50
C	848	CCSQCH821J50
C	849	CCSQCH821J50
C	850	CCSQCH821J50
C	851	CEJA4R7M35
C	852	CEJA4R7M35
C	853	CEJA4R7M35
C	854	CEJA4R7M35
C	855	CCSQCH821J50
C	856	CCSQCH821J50

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=====Circuit Symbol and No.		===Part Name	Part No.
C	857		CCSQCH181J50
C	858		CCSQCH181J50
C	859		CKSQYB473K50
C	860		CKSQYB473K50
C	861		CCSQCH560J50
C	862		CCSQCH560J50
C	863		CKSQYB153K50
C	864		CKSQYB153K50
C	865		CKSQYB153K50
C	866		CKSQYB153K50
C	867		CEJANP4R7M16
C	868		CEJANP4R7M16
C	869		CEJANP4R7M16
C	870		CEJANP4R7M16
C	871		CKSQYB224K16
C	901	330µF/25V	CCH1281
C	902	330µF/25V	CCH1281
C	903	330µF/25V	CCH1281
C	905		CKSYB224K25
C	907		CKSQYB102K50
C	911		CEHAR220M16
C	912		CKSQYB473K50
C	913		CEJA101M6R3
C	931		CCSQCH221J50
C	932		CCSQCH221J50
C	941		CKSQYB473K50
C	942		CCSQCH220J50
C	943		CCSQCH221J50

Extension Unit
Consists of
Extension PCB
Keyboard PCB

E **F** Unit Number : CWX2093
Unit Name : Extension Unit(CDX-M8476ZT/UC)

MISCELLANEOUS

IC	951	IC	NJM78L05A
IC	952	IC	TC7W04F
Q	911	Transistor	2SB942A
Q	912	Transistor	2SD1859
Q	913	Transistor	2SD1859
Q	941	Transistor	DTA143XS
D	901	Diode	GP30ML
D	902	Diode	ERA15-02VH
D	903	Diode	RD18JS(B1)
D	931	Diode	RD18JS(B1)
D	932	Diode	RD18JS(B1)
D	942	LED	CL140GCD
L	901	Choke Coil 1.4mH	CTH1129
L	951	Transformer	CTC1075
SW	903	Switch(Eject)	CSG1030
EF	901	EMI Filter	CCG1006

RESISTORS

R	901		RS1/10S184J
R	902		RN1/10SE7502D
R	903		RD1/4PU183J
R	904		RN1/10SE7501D
R	905		RS1/10S102J
R	907		RD1/4PU472J
R	911		RS1/10S103J
R	912		RS1/8S201J
R	913		RS1/8S201J
R	914		RS1/10S101J
R	915		RS1/8S241J
R	916		RN1/10SE5100D
R	917		RN1/10SE6800D
R	925		RS1/10S0R0J
R	931		RD1/4PU101J
R	932		RD1/4PU101J
R	941		RS1/8S241J
R	951		RS1/10S101J
R	952		RD1/4PU750J

CAPACITORS

C	901	330µF/25V	CCH1281
C	902	330µF/25V	CCH1281
C	903	330µF/25V	CCH1281
C	905		CKSYB224K25
C	911		CEHAR220M16
C	931		CCSQCH221J50
C	932		CCSQCH221J50
C	941		CKSQYB473K50
C	942		CCSQCH220J50
C	943		CCSQCH221J50
C	951		CKSQYB473K50
C	952		CKSQYB473K50
C	953		CEJA2R2M50
C	954		CKSQYB103K50
C	955		CEJA470M16
C	956		CCSQCH680J50
C	957		CCSQCH470J50
C	958		CKSQYB473K50

D Unit Number : CWX2041
Unit Name : Main Unit
(CDX-M8076ZT/E, M8176ZT/E)

MISCELLANEOUS

IC	1001	IC	UPC2571GS
IC	1201	IC	UPD63700AGF
IC	1401	IC	XLA6797FM
IC	1601	IC	SM5874AMP
IC	1602	IC	NJM2068MD
IC	1701	IC	PD5409B
IC	1703	IC	HA12187FP
IC	1704	IC	PAJ002A
IC	1801	IC	LB1836M
Q	1001	Transistor	2SA1015
Q	1401	Transistor	2SB1238
Q	1707	Transistor	DTA123JS
Q	1708	Transistor	DTC114YS
Q	1709	Transistor	2SB1238
Q	1801	Transistor	DTA123JK
Q	1802	Transistor	UN2211
Q	1803	Transistor	2SB1184F5
Q	1804	Transistor	UN2219
D	1401	Diode	ERA15-02VH
D	1402	Diode	ERA15-02VH
D	1403	Diode	ERA15-02VH
D	1801	Diode	ERA15-02VH
D	1802	Diode	ERA15-02VH
D	1803	Diode	RB100AVH
TH	1701	Thermistor	CCX1015
X	1601	Crystal Resonator 16.9344MHz	CSS1052
X	1701	Ceramic Resonator 6.29MHz	CSS1310
VR	1001	Semi-fixed 2.2kΩ(B)	CCP1177
VR	1002	Semi-fixed 22kΩ(B)	CCP1183
VR	1003	Semi-fixed 47kΩ(B)	CCP1185

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CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91,
CDX-M8476ZT,M8476ZT-91

=====Circuit Symbol and No.	===Part Name	Part No.
VR 1004	Semi-fixed 47kΩ(B)	CCP1185
TP 1001	Checker Chip(TEY)	CKF1031
TP 1002	Checker Chip(FEY)	CKF1031
TP 1003	Checker Chip(RFO)	CKF1031
TP 1004	Checker Chip(5VA)	CKF1031
TP 1005	Checker Chip(REFO)	CKF1031
TP 1006	Checker Chip(E)	CKF1031
TP 1007	Checker Chip(F)	CKF1031
RESISTORS		
R 1001		RS1/8S100J
R 1002		RS1/8S120J
R 1003		RS1/16S103J
R 1004		RS1/16S102J
R 1005		RS1/16S823J
R 1006		RS1/16S182J
R 1007		RS1/16S333J
R 1011		RS1/16S683J
R 1012		RS1/16S683J
R 1013		RS1/16S102J
R 1014		RS1/16S473J
R 1018		RS1/16S622J
R 1019		RS1/16S563J
R 1020		RS1/16S622J
R 1021		RS1/16S513J
R 1022		RS1/16S133J
R 1024		RS1/16S102J
R 1025		RS1/16S102J
R 1027		RS1/16S183J
R 1028		RS1/16S822J
R 1030		RS1/16S102J
R 1201		RS1/16S104J
R 1202		RS1/16S473J
R 1402		RS1/16S163J
R 1403		RS1/16S163J
R 1404		RS1/16S753J
R 1405		RS1/16S433J
R 1406		RS1/16S103J
R 1407		RS1/16S563J
R 1408		RS1/16S133J
R 1409		RS1/16S153J
R 1410		RS1/16S473J
R 1411		RS1/16S103J
R 1412		RS1/16S152J
R 1413		RS1/16S563J
R 1414		RS1/16S0R0J
R 1602		RS1/16S0R0J
R 1605		RS1/16S103J
R 1606		RS1/16S103J
R 1607		RS1/16S103J
R 1608		RS1/16S103J
R 1609		RS1/16S752J
R 1610		RS1/16S752J
R 1611		RS1/16S752J
R 1612		RS1/16S752J
R 1613		RS1/16S163J
R 1614		RS1/16S163J
R 1615		RS1/16S163J
R 1616		RS1/16S163J
R 1617		RS1/16S750J
R 1618		RS1/16S750J
R 1619		RS1/16S103J
R 1620		RS1/8S3R9J
R 1701		RS1/16S513J
R 1702		RS1/16S103J
R 1703		RS1/16S154J
R 1704		RS1/16S753J
R 1705		RS1/16S104J
R 1706		RS1/16S104J
R 1708		RS1/16S433J
R 1709		RS1/16S222J
R 1710		RS1/16S222J
R 1712		RS1/16S103J
R 1713		RS1/16S104J
R 1714		RS1/16S222J
R 1716		RS1/16S563J
R 1717		RS1/16S153J
R 1718		RS1/16S104J
R 1719		RS1/16S0R0J
R 1721		RS1/16S104J
R 1722		RS1/16S222J
R 1729		RS1/16S222J
R 1730		RS1/16S104J
R 1731		RS1/16S104J
R 1732		RS1/16S104J
R 1733		RS1/16S104J
R 1734		RS1/16S104J
R 1735		RS1/16S222J
R 1736		RS1/16S222J
R 1737		RS1/16S104J
R 1741		RS1/16S103J
R 1742		RS1/16S104J
R 1744		RS1/16S222J
R 1745		RS1/16S222J
R 1747		RS1/16S104J
R 1748		RS1/16S104J
R 1749		RS1/16S102J
R 1751		RS1/16S473J
R 1752		RS1/16S473J
R 1756		RS1/16S104J
R 1757		RS1/16S221J
R 1758		RS1/16S221J
R 1759		RS1/16S221J
R 1760		RS1/16S221J
R 1767		RS1/8S3R9J
R 1768		RS1/16S102J
R 1769		RS1/16S0R0J
R 1771		RS1/16S102J
R 1776		RS1/16S0R0J
R 1801		RS1/10S431J
R 1802		RS1/10S431J
R 1803		RS1/10S431J
R 1804		RS1/10S431J
R 1805		RS1/16S102J
R 1806		RS1/8S910J
R 1807		RS1/8S910J
R 1808		RS1/8S910J
CAPACITORS		
C 1001		CKSRYB102K50
C 1002		CEAS101M10
C 1003		CKSQYB104K16
C 1004		CEAS470M10
C 1005		CCSRCH101J50
C 1006		CKSRYB561K50
C 1007		CKSYB334K16
C 1008		CKSRYB102K50
C 1009		CCSRCH181J50
C 1010		CKSRYB102K50

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=====Circuit Symbol and No.		===Part Name	Part No.
C	1011		CKSRYB102K50
C	1013		CKSRYB103K25
C	1014		CCSRCH220J50
C	1015		CKSYB334K16
C	1018		CEJA220M6R3
C	1021		CKSQYB104K16
C	1022		CKSRYB332K50
C	1023		CKSRYB561K50
C	1201		CKSYB334K16
C	1202		CKSYB104K16
C	1203		CKSRYB471K50
C	1204		CKSRYB102K50
C	1401		CSZA220M16
C	1402		CKSQYB103K50
C	1403		CKSQYB153K50
C	1404		CEAS221M10
C	1405		CEAS221M10
C	1406		CKSRYB152K50
C	1407		CKSRYB821K50
C	1408		CKSRYB271K50
C	1409	22µF/16V	CCL1044
C	1602		CKSQYB104K16
C	1603		CKSQYB104K16
C	1604		CKSQYB104K16
C	1605		CKSQYB104K16
C	1606		CCSRCH8R0D50
C	1607		CCSRCH8R0D50
C	1608		CEAS221M10
C	1609		CCSRCH221J50
C	1610		CCSRCH221J50
C	1611		CCSRCH680J50
C	1612		CCSRCH680J50
C	1613		CCSRCH680J50
C	1614		CCSRCH680J50
C	1616		CKSYB224K16
C	1701		CKSRYB103K25
C	1703		CSZST330M16
C	1705		CKSRYB103K25
C	1706		CKSRYB103K50
C	1707		CKSRYB103K25
C	1710		CKSRYB103K25
C	1711		CKSRYB102K50
C	1802		CEAL220M16

D Unit Number : CWX2094
Unit Name : Main Unit(CDX-M8476ZT/UC)

MISCELLANEOUS

IC	1001	IC	UPC2571GS
IC	1201	IC	UPD63700AGF
IC	1401	IC	XLA6797FM
IC	1601	IC	SM5874AMP
IC	1701	IC	PD5409B
IC	1703	IC	HA12187FP
IC	1704	IC	PAJ002A
IC	1801	IC	LB1836M
Q	1001	Transistor	2SA1015
Q	1401	Transistor	2SB1238
Q	1707	Transistor	DTA123JS
Q	1708	Transistor	DTC114YS
Q	1709	Transistor	2SB1238
Q	1801	Transistor	DTA123JK
Q	1802	Transistor	UN2211
Q	1803	Transistor	2SB1184F5
Q	1804	Transistor	UN2219
D	1401	Diode	ERA15-02VH
D	1402	Diode	ERA15-02VH
D	1403	Diode	ERA15-02VH

=====Circuit Symbol and No.		===Part Name	Part No.
D	1801	Diode	ERA15-02VH
D	1802	Diode	ERA15-02VH
D	1803	Diode	RB100AVH
TH	1701	Thermistor	CCX1015
X	1601	Crystal Resonator 16.9344MHz	CSS1052
X	1701	Ceramic Resonator 6.29MHz	CSS1310
VR	1001	Semi-fixed 2.2kΩ(B)	CCP1177
VR	1002	Semi-fixed 22kΩ(B)	CCP1183
VR	1003	Semi-fixed 47kΩ(B)	CCP1185
VR	1004	Semi-fixed 47kΩ(B)	CCP1185
TP	1001	Checker Chip(TEY)	CKF1031
TP	1002	Checker Chip(FEY)	CKF1031
TP	1003	Checker Chip(RFO)	CKF1031
TP	1004	Checker Chip(5VA)	CKF1031
TP	1005	Checker Chip(REFO)	CKF1031
TP	1006	Checker Chip(E)	CKF1031
TP	1007	Checker Chip(F)	CKF1031

RESISTORS

R	1001	RS1/8S100J
R	1002	RS1/8S120J
R	1003	RS1/16S103J
R	1004	RS1/16S102J
R	1005	RS1/16S823J
R	1006	RS1/16S182J
R	1007	RS1/16S333J
R	1011	RS1/16S683J
R	1012	RS1/16S683J
R	1013	RS1/16S102J
R	1014	RS1/16S473J
R	1018	RS1/16S622J
R	1019	RS1/16S563J
R	1020	RS1/16S622J
R	1021	RS1/16S513J
R	1022	RS1/16S133J
R	1024	RS1/16S102J
R	1025	RS1/16S102J
R	1027	RS1/16S183J
R	1028	RS1/16S822J
R	1030	RS1/16S102J
R	1201	RS1/16S104J
R	1202	RS1/16S473J
R	1402	RS1/16S163J
R	1403	RS1/16S163J
R	1404	RS1/16S753J
R	1405	RS1/16S433J
R	1406	RS1/16S103J
R	1407	RS1/16S563J
R	1408	RS1/16S133J
R	1409	RS1/16S153J
R	1410	RS1/16S473J
R	1411	RS1/16S103J
R	1412	RS1/16S152J
R	1413	RS1/16S563J
R	1414	RS1/16S0R0J
R	1602	RS1/16S0R0J
R	1619	RS1/16S103J
R	1620	RS1/8S3R9J
R	1701	RS1/16S513J
R	1702	RS1/16S103J
R	1703	RS1/16S154J
R	1704	RS1/16S753J
R	1705	RS1/16S104J
R	1706	RS1/16S104J

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=====Circuit Symbol and No.		===Part Name	Part No.
R	1708		RS1/16S433J
R	1709		RS1/16S222J
R	1710		RS1/16S222J
R	1712		RS1/16S103J
R	1713		RS1/16S104J
R	1714		RS1/16S222J
R	1716		RS1/16S563J
R	1717		RS1/16S153J
R	1718		RS1/16S104J
R	1719		RS1/16S0R0J
R	1721		RS1/16S104J
R	1722		RS1/16S222J
R	1729		RS1/16S222J
R	1730		RS1/16S104J
R	1731		RS1/16S104J
R	1732		RS1/16S104J
R	1733		RS1/16S104J
R	1734		RS1/16S104J
R	1735		RS1/16S222J
R	1736		RS1/16S222J
R	1737		RS1/16S104J
R	1739		RS1/16S104J
R	1741		RS1/16S103J
R	1742		RS1/16S104J
R	1744		RS1/16S222J
R	1745		RS1/16S222J
R	1746		RS1/16S102J
R	1747		RS1/16S104J
R	1748		RS1/16S104J
R	1749		RS1/16S102J
R	1751		RS1/16S473J
R	1752		RS1/16S473J
R	1756		RS1/16S104J
R	1757		RS1/16S221J
R	1758		RS1/16S221J
R	1759		RS1/16S221J
R	1760		RS1/16S221J
R	1767		RS1/8S3R9J
R	1768		RS1/16S102J
R	1771		RS1/16S102J
R	1776		RS1/16S0R0J
R	1801		RS1/10S431J
R	1802		RS1/10S431J
R	1803		RS1/10S431J
R	1804		RS1/10S431J
R	1805		RS1/16S102J
R	1806		RS1/8S910J
R	1807		RS1/8S910J
R	1808		RS1/8S910J

CAPACITORS

C	1001		CKSRYB102K50
C	1002		CEAS101M10
C	1003		CKSQYB104K16
C	1004		CEAS470M10
C	1005		CCSRCH101J50
C	1006		CKSRYB561K50
C	1007		CKSYB334K16
C	1008		CKSRYB102K50
C	1009		CCSRCH181J50
C	1010		CKSRYB102K50
C	1011		CKSRYB102K50
C	1013		CKSRYB103K25
C	1014		CCSRCH220J50
C	1015		CKSYB334K16
C	1018		CEJA220M6R3

=====Circuit Symbol and No.		===Part Name	Part No.
C	1021		CKSQYB104K16
C	1022		CKSRYB332K50
C	1023		CKSRYB561K50
C	1201		CKSYB334K16
C	1202		CKSYB104K16
C	1203		CKSRYB471K50
C	1204		CKSRYB102K50
C	1401		CSZA220M16
C	1402		CKSQYB103K50
C	1403		CKSQYB153K50
C	1404		CEAS221M10
C	1405		CEAS221M10
C	1406		CKSRYB152K50
C	1407		CKSRYB821K50
C	1408		CKSRYB271K50
C	1409	22µF/16V	CCL1044
C	1602		CKSQYB104K16
C	1603		CKSQYB104K16
C	1604		CKSQYB104K16
C	1605		CKSQYB104K16
C	1606		CCSRCH8R0D50
C	1607		CCSRCH8R0D50
C	1608		CEAS221M10
C	1701		CKSRYB103K25
C	1703		CSZST330M16
C	1705		CKSRYB103K25
C	1706		CKSRYB103K50
C	1707		CKSRYB103K25
C	1710		CKSRYB103K25
C	1711		CKSRYB102K50
C	1802		CEAL220M16

A Unit Number :
Unit Name : PCB Unit

C	801		CKSQYB102K50
C	802		CKSQYB102K50

B Unit Number :
Unit Name : Mechanism PCB

D	802	LED	CN504-2
S	805	Switch(Home)	CSN1012

C Unit Number :
Unit Name : Photo PCB

D	801	LED	CN504-2
S	801	Switch(RSTP)	CSN1025
S	802	Switch(MAG)	CSN1012

Miscellaneous Parts List

		PU Unit	CGY1036
M	801	Motor Unit(Spindle)	CXA4540
M	802	Motor Unit(Elevation)	CXB1407
M	803	Motor Unit(Tray)	CXA8656
M	804	Motor Unit(Carriage)	CXA4649
P	801	Photo-Transistor	PT4800
P	802	Photo-Transistor	PT4800
S	803	Switch(TRP)	CSN1012
S	804	Switch(DSP)	CSN1012

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6. ADJUSTMENT

● Audio System Diagram

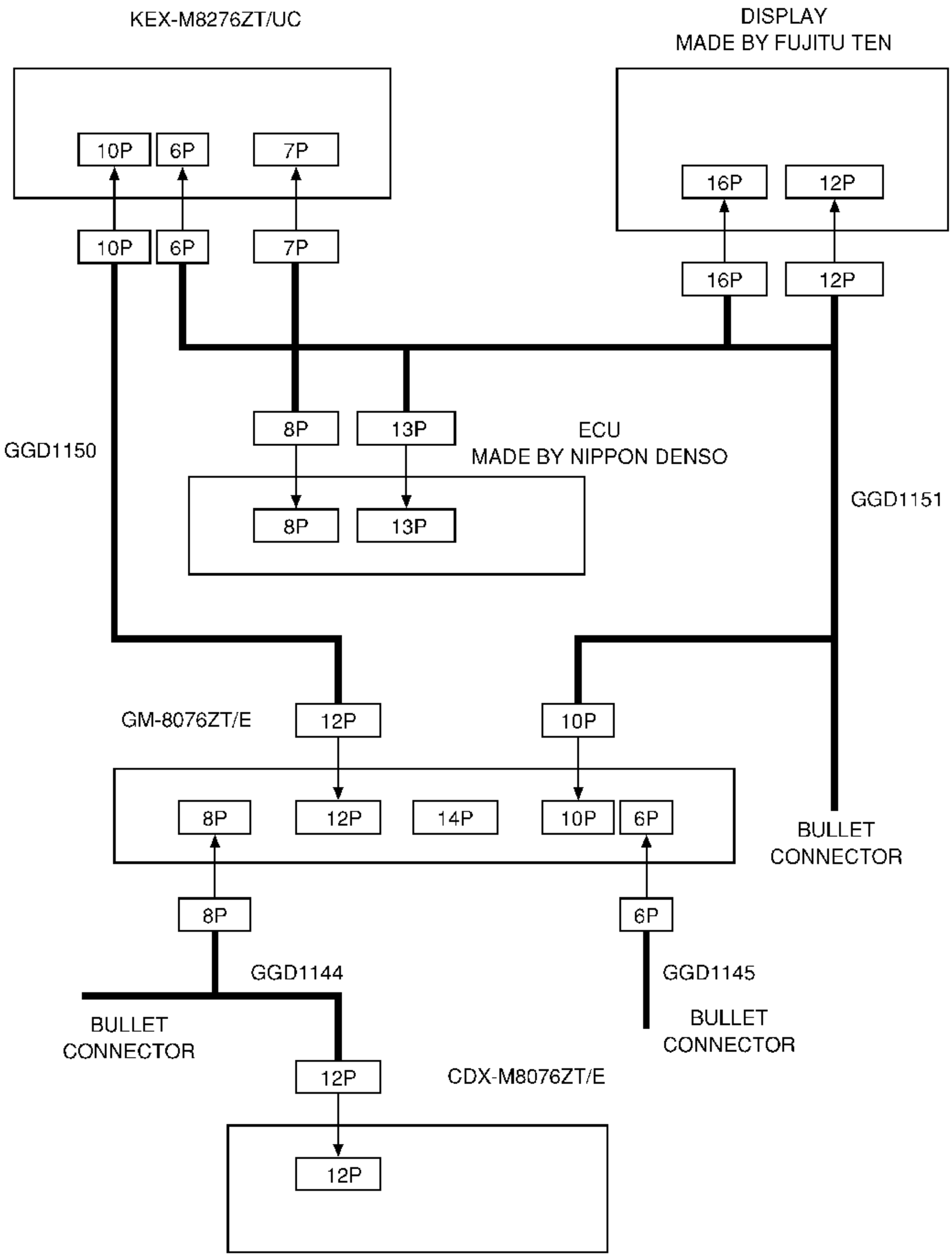

Fig. 25

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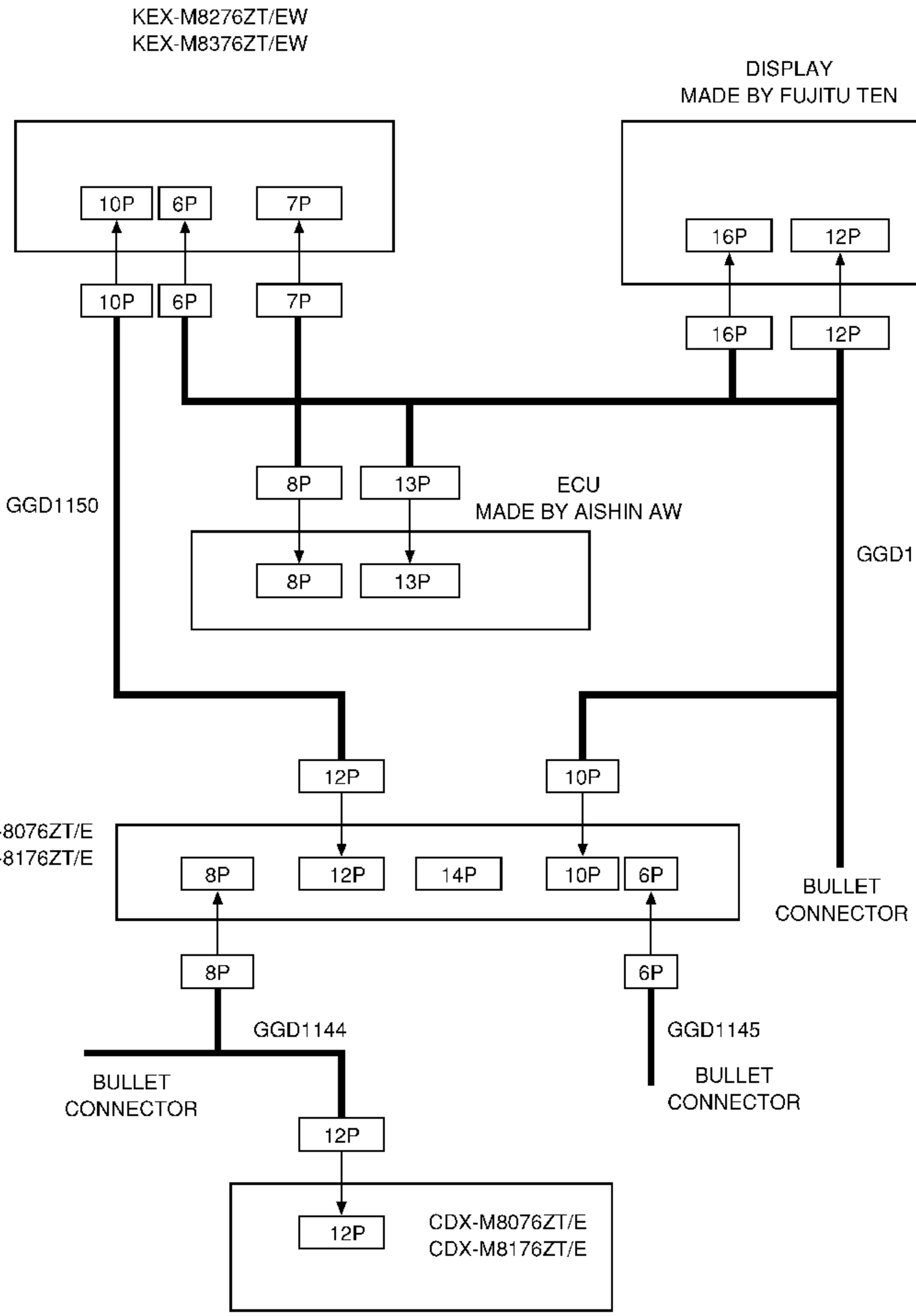

Fig. 26

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KEX-M8076ZT/UC
KEX-M8076ZT/EW
KEX-M8076ZT/ES

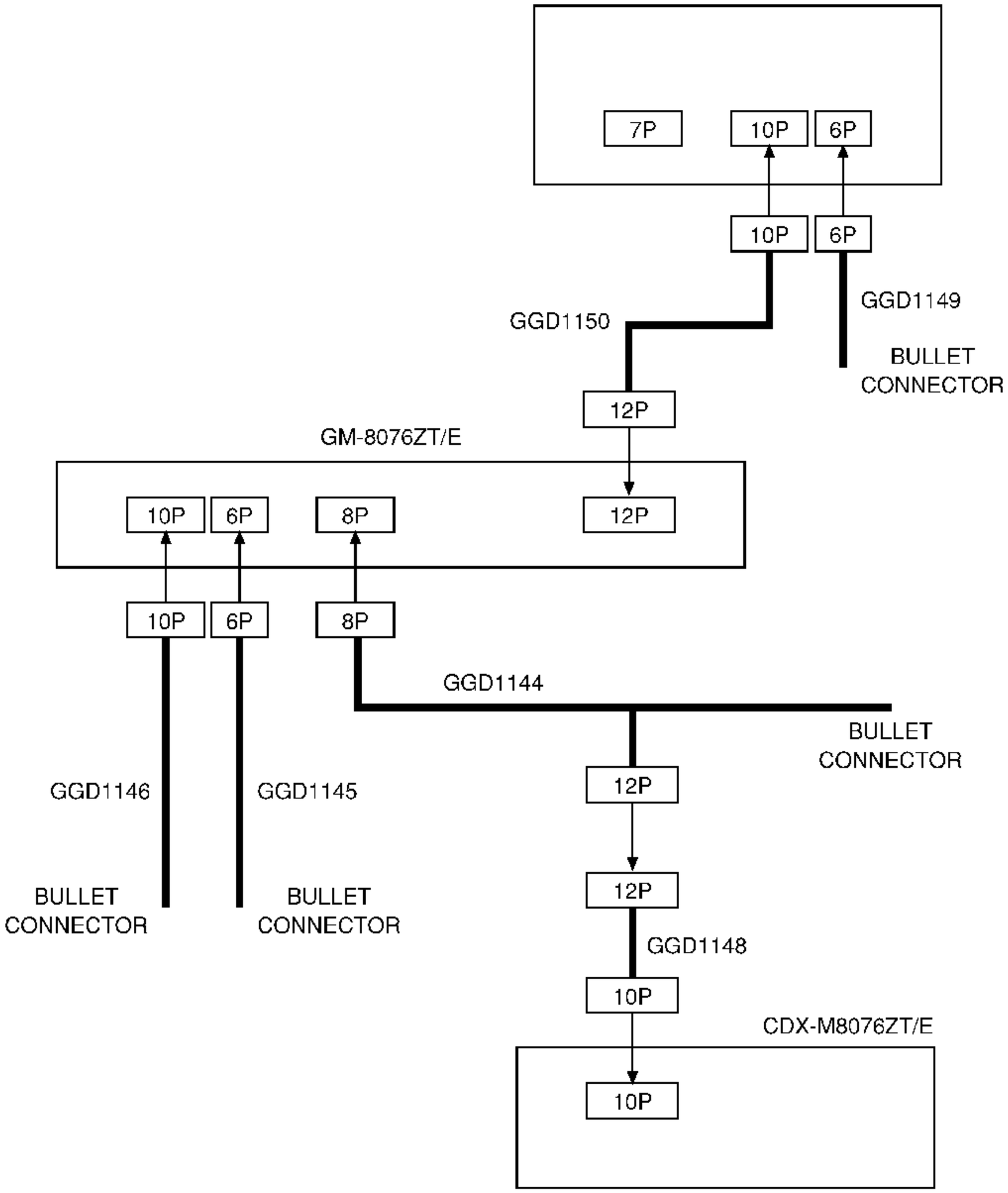

Fig. 27

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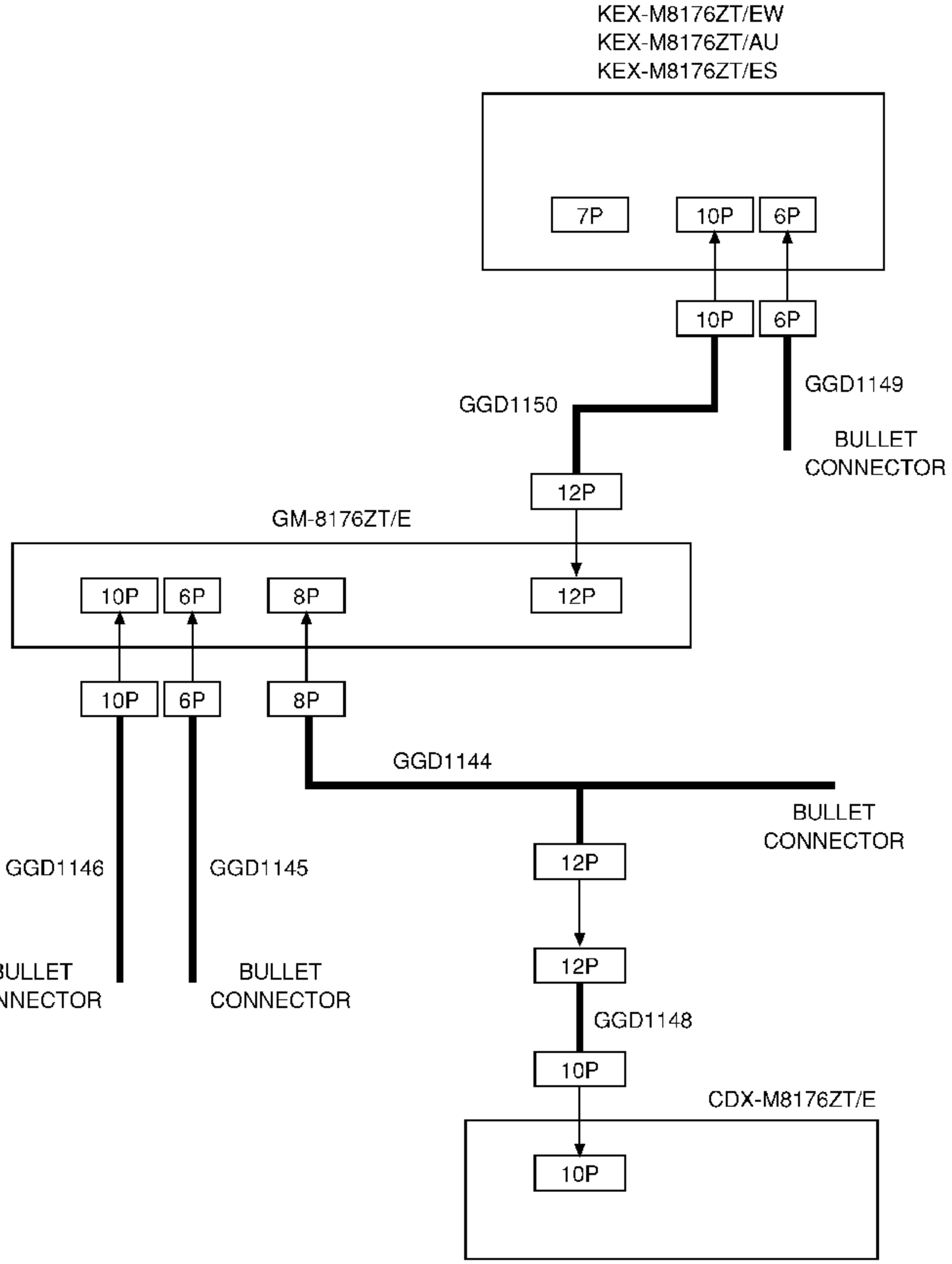

Fig. 28

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CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91, CDX-M8476ZT,M8476ZT-91

1)Precautions

- This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.
  If REFO and GND are connected to each other by mistake during adjustments,not only will it be impossible to measure the potential correctly,but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this,take special note of the following.
  Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.
  Since the frame of the measuring instrument is usually at the same potential as the negative probe,change the frame of the measuring instrument to floating status.
  If by accident REFO comes in contact with GND,immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.

- Before proceeding to further adjustments and measurements after switching regulator ON,let the player run for about one minute to allow the circuits to stabilize.

- Since the protective systems in the unit's software are rendered inoperative in test mode,be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.

- With this system, elevation is detected by the phototransistor. Therefore, if light hits the phototransistor, elevation may operate incorrectly. Should the system be operated with the upper case removed, use some opaque material to shield the moving parts from light.

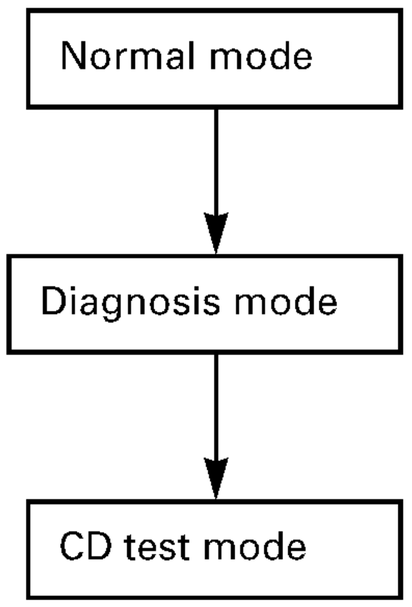
- When unloading magazine during adjustment procedures,always wait for the magazine to be properly ejected before pressing another key.

- Turn power off when pressing the button FWD-Kick or the button REV-Kick key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)

2)Test Mode

- This unit is adjusted in a combination with the CD control unit (KEX-M8076ZT/UC, etc.). Each regulator key should be operated at the unit.
  With the KEX-M8076ZT/UC taken up for reference, a description will be given below concerning how to enter into the test mode, including key operations. The key in the adjustment text is also one of the KEX-M8076ZT/UC keys.

- How to enter into the test mode


Normal mode
Press the CD key three times, while holding down the [1] and [6] keys simultaneously.
Diagnosis mode
Press the TRK UP and CD keys simultaneously.
CD test mode

- Resetting the test mode
  Switch ACC,back-up Off.

- SINGLE/10TRK/32TRK will continue to operate even after the key is released.Tracking closed the moment C-MOVE is released.

- JUMP MODE resets to SINGLE as soon as power is switched off.

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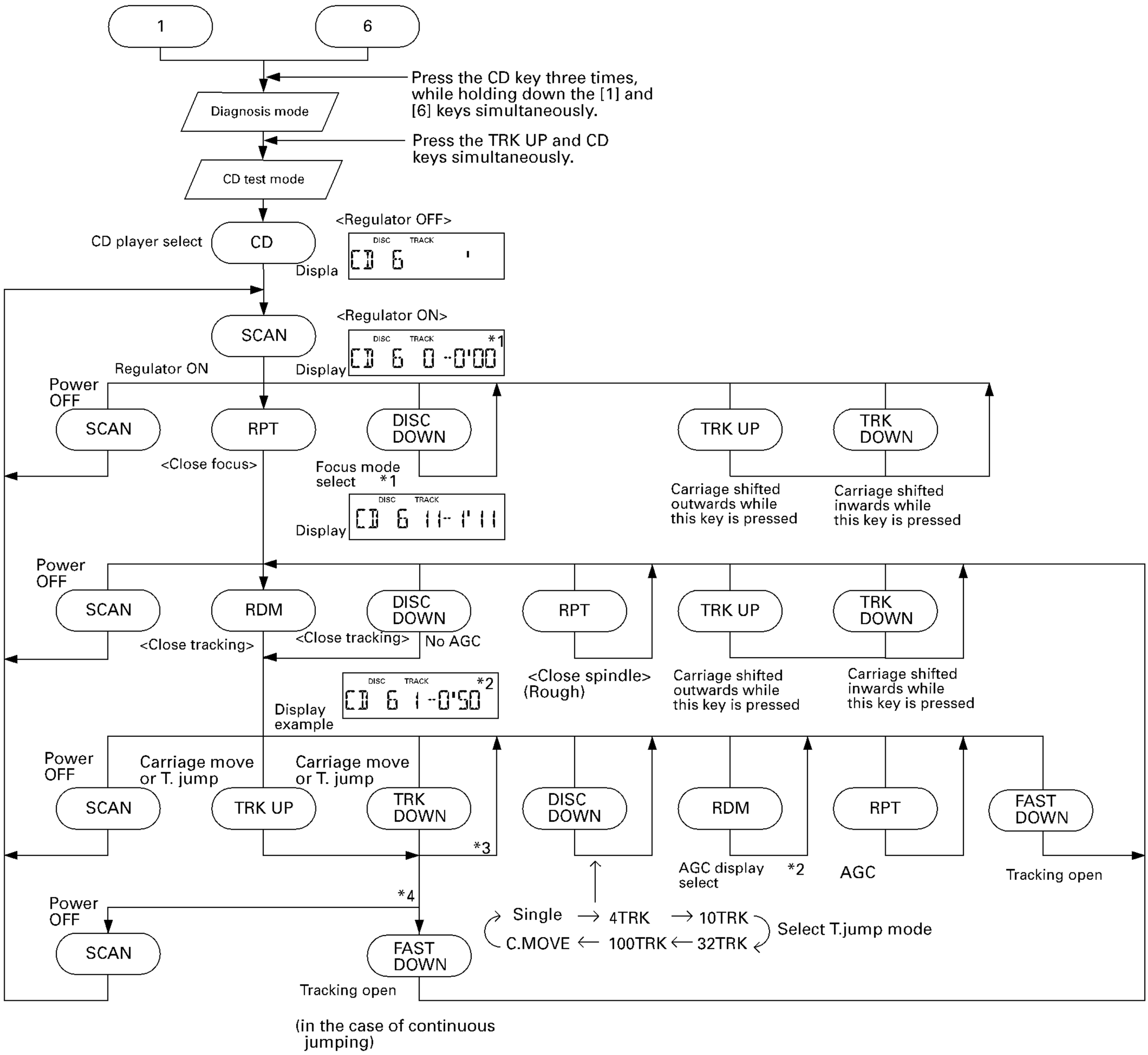
● Flow Chart



*1 ┌Normal focus close 00⟶S curve check 01 ⟶ Focus EQ check 02┐

*2 ┌Normal display⟶Focus gain ⟶ Track gain ┐

*3 100 TRK jump and carriage move ⟶Tracking Close in a little while the keys are released

*4 SINGLE/4/10/32 ⟶ continuous even after key release

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● Measuring Equipment and Jigs

Adjustment	Measuring equipment and jigs
1 Tracking Error Offset Adjustment 1	DC V Meter
2 Grating Check / Adjustment 1	Oscilloscope, ABEX TCD-784 (or SONY TYPE 4), Two L.P.F., Clock Driver
3 Grating Adjustment 2	Oscilloscope, Grating Adjustment Filter (B.P.F.),mV Meter, ABEX TCD-784 (or SONY TYPE 4), Two L.P.F., Clock Driver
4 Tracking Balance Adjustment 1	Oscilloscope, L.P.F., ABEX TCD-784 (or SONY TYPE 4)
5 Focus Bias Adjustment	Oscilloscope, ABEX TCD-784 (or SONY TYPE 4)
6 RFO Offset Adjustment	Oscilloscope, ABEX TCD-784 (or SONY TYPE 4)
7 Tracking Error Offset Adjustment 2	DC V Meter
8 Tracking Balance Adjustment 2	Oscilloscope, L.P.F., ABEX TCD-784 (or SONY TYPE 4)

● Adjustment Point and Test Point

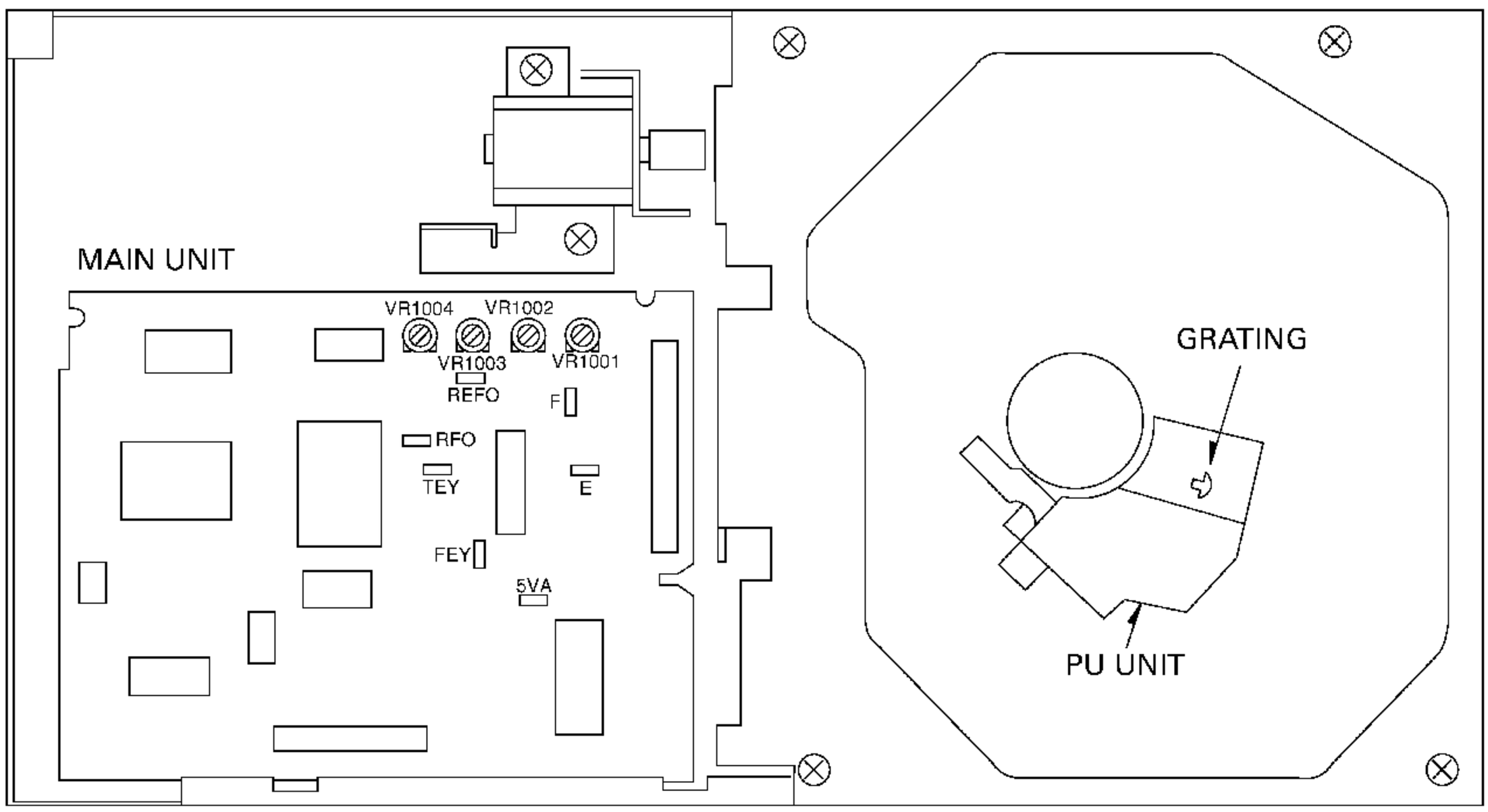

Fig. 29

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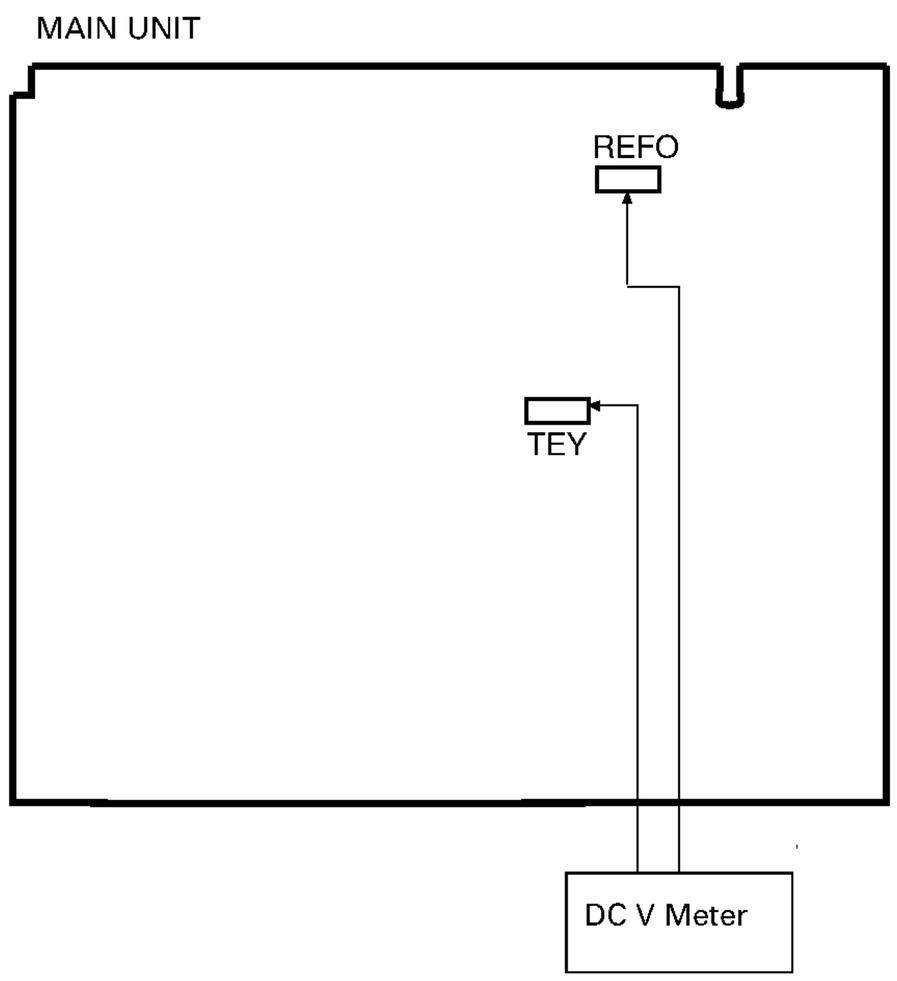
1 Tracking Error Offset Adjustment 1

· **Purpose :**
To adjust the offset of the tracking pre-amp to zero.
· **Symptoms of Mal-adjustment :**
Track search NG, carriage runaway, poor playability.

· **Measuring Equipment / Jig**	· DC V Meter
· **Measuring Point**	· TEY
· **Test Disc , Mode**	· No disc, TEST MODE
· **Adjustment Point**	· VR1001(TE OFFSET VR)

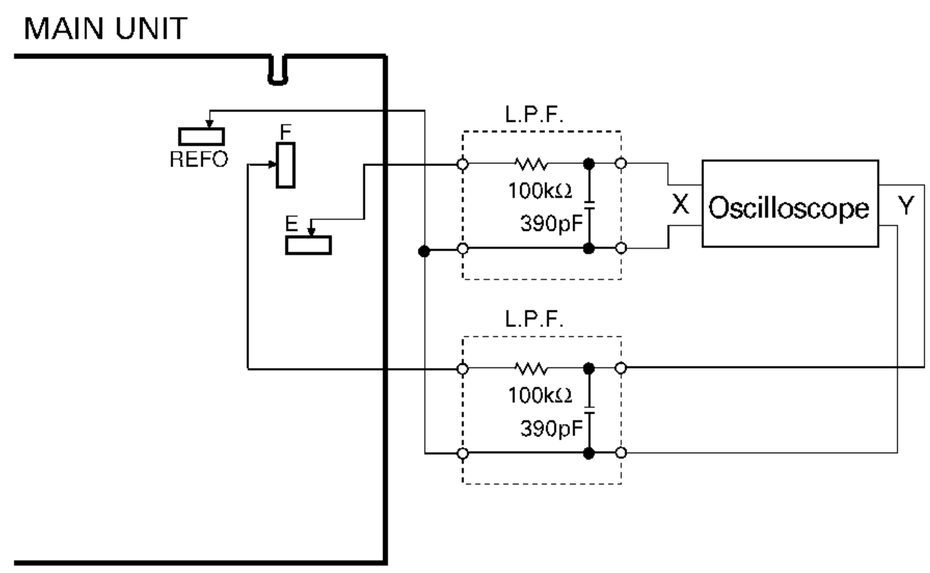


Adjustment Procedure
1.Switch the regulator on.
2.Using VR1001(TE OFFSET) adjust DC voltage of TEY from REFO to 0±25mV.

2 Grating Check / Adjustment 1

· **Purpose :**
To check that the PU grating is correctly aligned after the PU unit has been replaced.
· **Symptoms of Mal-adjustment :**
Unable to play disc, track skip during search, search NG.

· **Measuring Equipment / Jig**	· Oscilloscope, Two L.P.F., Clock Driver
· **Measuring Point**	· E, F
· **Test Disc , Mode**	· ABEX TCD-784 (or SONY TYPE 4), TEST MODE
· **Adjustment Point**	· Grating hole



Adjustment Procedure
1.Load disc and switch regulator on.
2.Position the PU unit in the center of the disc using the **TRK UP and TRK DOWN** keys.
3.Press key **RPT** to close focus and press once more to close spindle.
4.Input the L.P.F. output of E to the X axis, and L.P.F. output of F to the Y axis of an oscilloscope by the AC mode, observe lissajous, and check that the grating is within ±45°. (See Waveform 1–3).
5.If the grating is over 45°, make a fine adjustment by slowly turning the screw driver, so that the lessajous is in line. If, however during the adjustment the screw driver should be turned too much and the lessajous should become out of line, proceed to the next grating adjustment 2.

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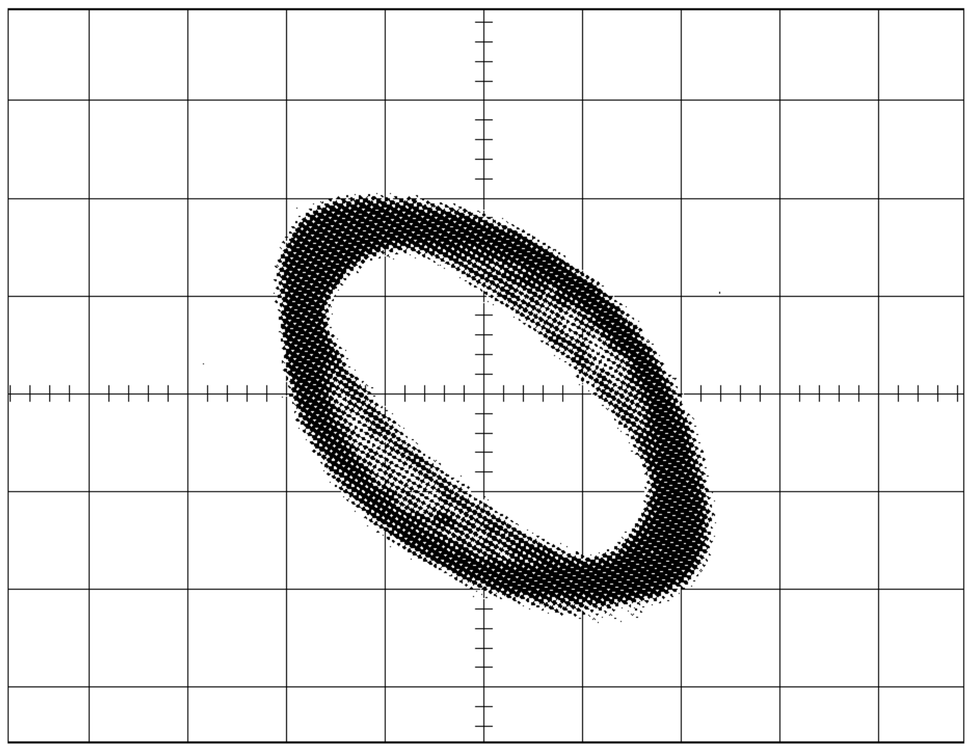
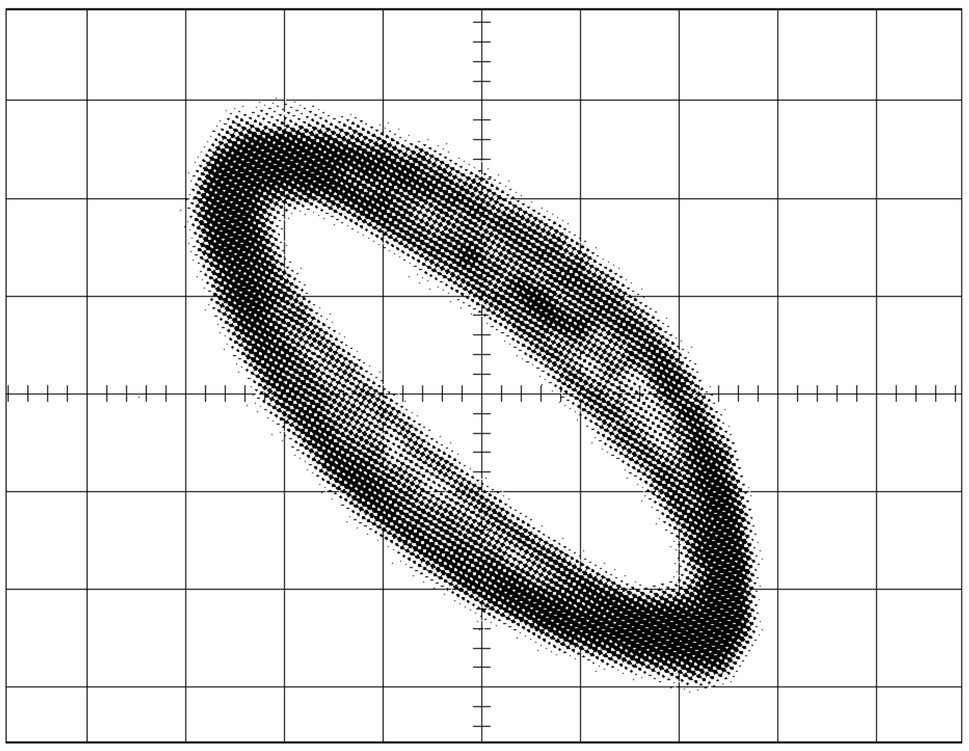
Lissajous figure (AC input)
Horizontal axis E 10mV/div.
Vertical axis F 10mV/div.



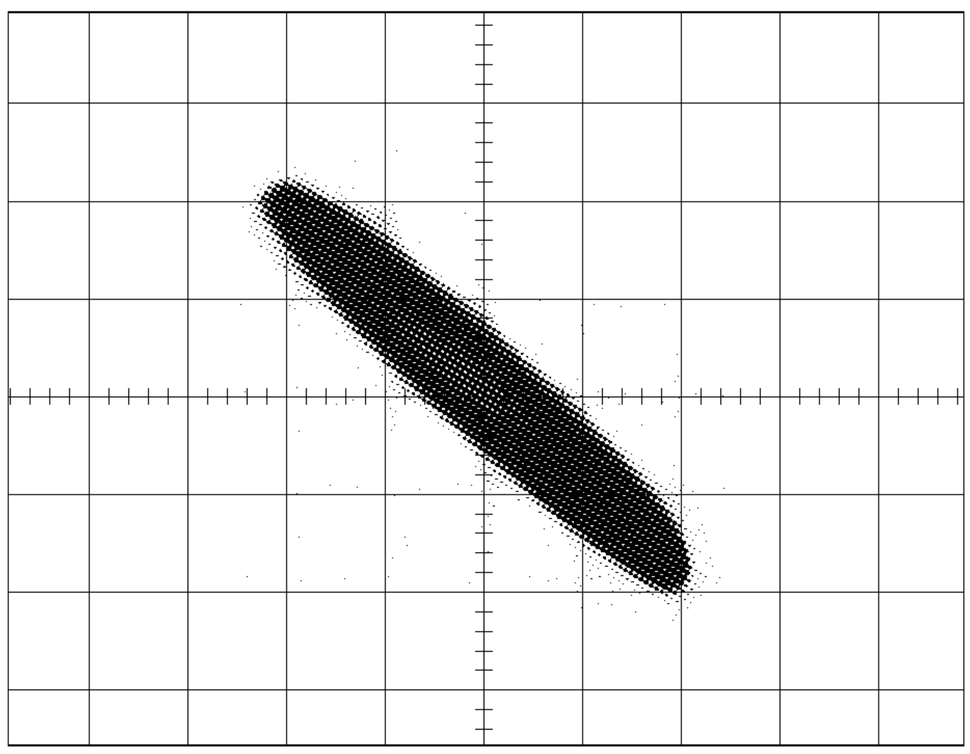
60°=NG

Waveform 1



45°=OK
(Limit)

Waveform 2



0°=BEST
(Doesn't become a single line due to eccentricity)

Waveform 3

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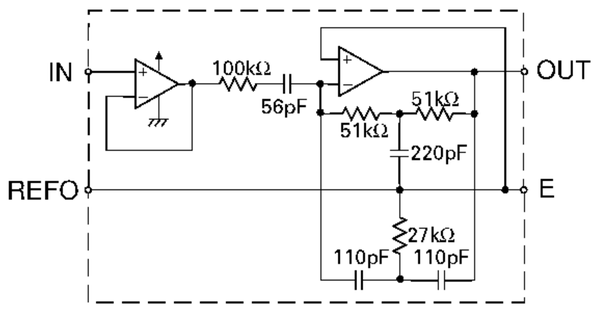
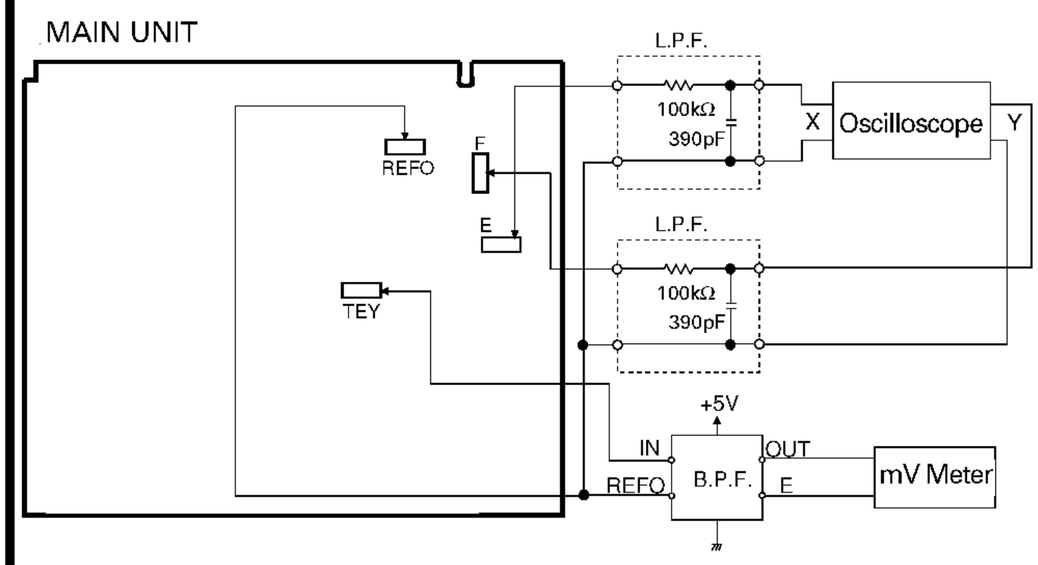
3 Grating Adjustment 2

· **Purpose :**
This needs to be done if the previous adjustment was unsuccessful.
· **Symptoms of Mal-adjustment :**
Unable to play disc, track skipping, track search NG.

· **Measuring Equipment / Jig**	· Oscilloscope, Grating Adjustment filter (B.P.F.), mV Meter, Two L.P.F., Clock Driver
· **Measuring Point**	· TEY, E, F
· **Test Disc , Mode**	· ABEX TCD-784 (or SONY TYPE 4), TEST MODE
· **Adjustment Point**	· Grating hole

B.P.F.



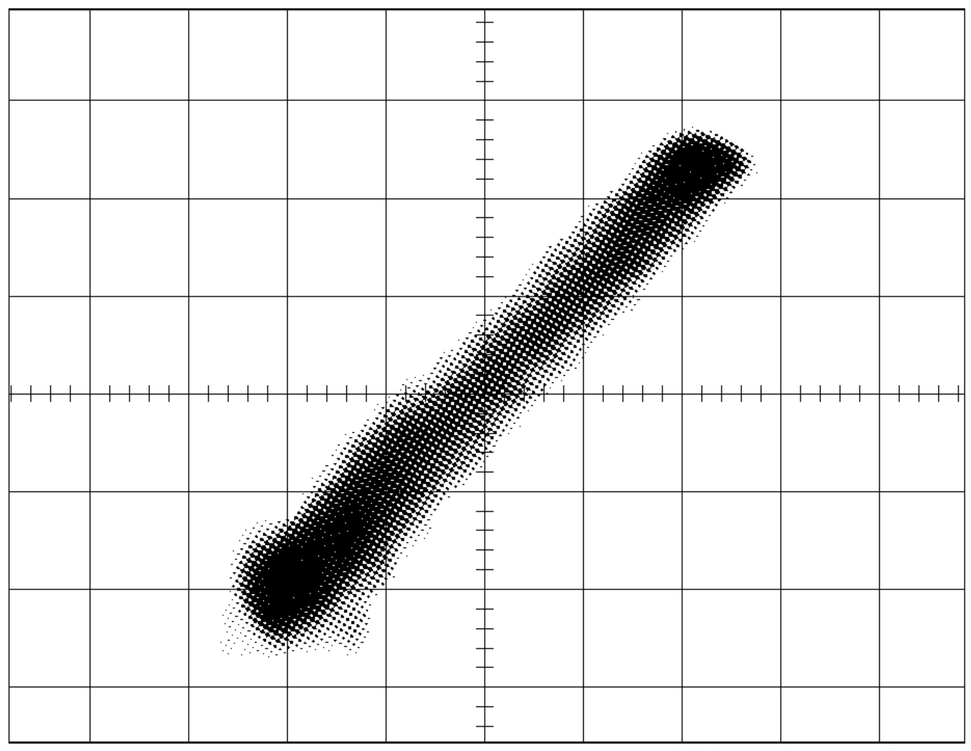


Adjustment Procedure

1. Load disc and switch regulator on.
2. Position the PU unit in the center of the disc using the **TRK UP and TRK DOWN** keys.
3. Press key **RPT** to close focus and press once more to close spindle.
4. While observing the TEY filter output using an ACmV meter, use a screwdriver to slowly turn the grating hole.
   The AC level, should become larger or smaller by turning the grating hole, try to find the minimum level point.
   (This is where the grating is in line on track, and is the "null point".)
5. Turn the screwdriver clockwise from the null point (from the PU under side), so that the lissajous is in line as much as possible.

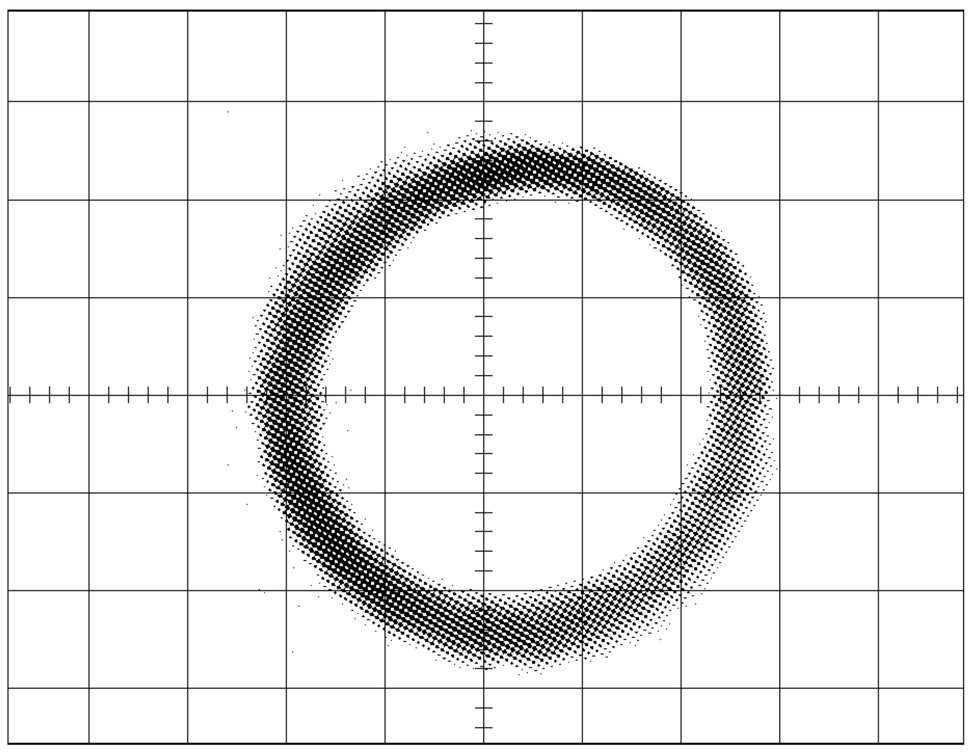
Null Point=180°

Lissajous figure (AC input)
Horizontal axis E 10mV/div.
Vertical axis F 10mV/div.



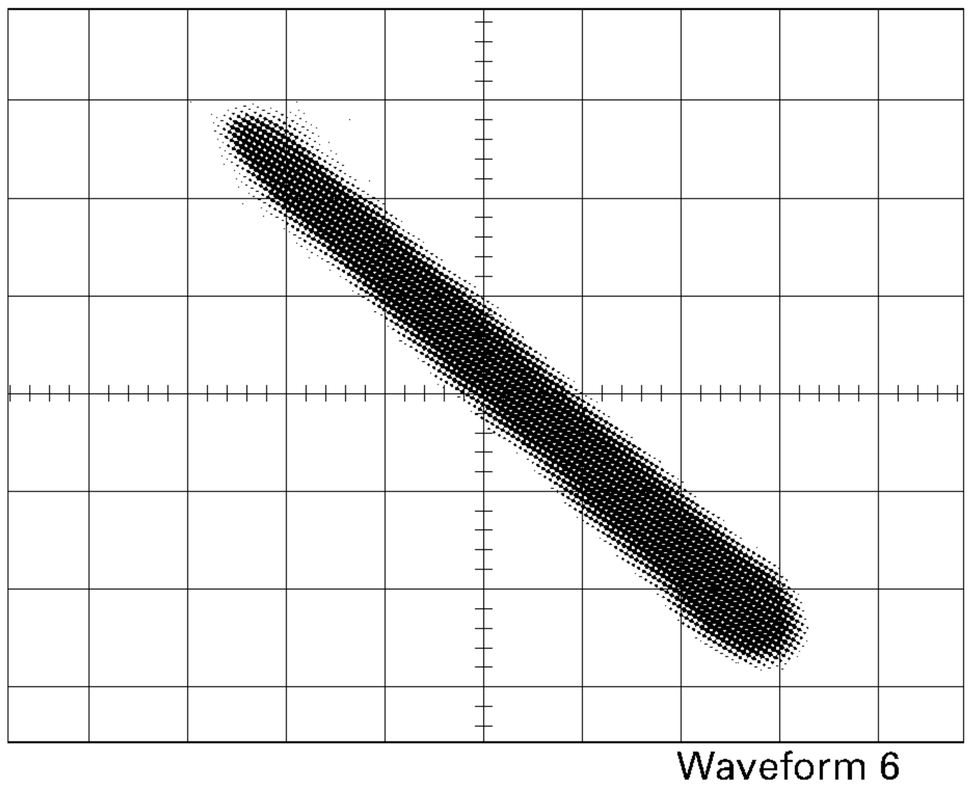
Waveform 4

"Rough" adjustment=90°



Waveform 5

Final adjustment=0°



Waveform 6

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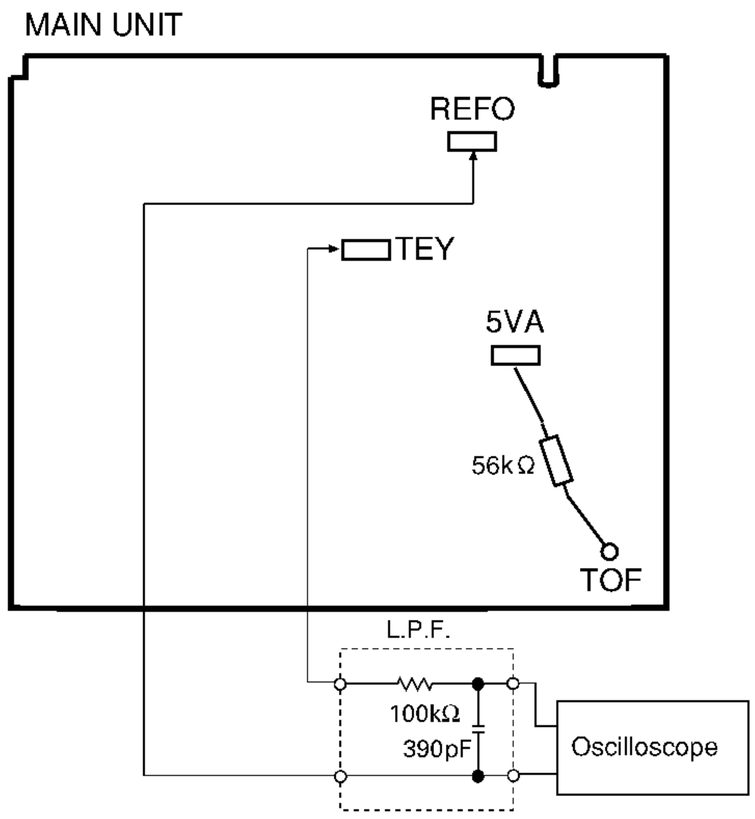
4 Tracking Balance Adjustment 1

· **Purpose :**
To equate the sensitivity of the F channel to that of the E channel.
· **Symptoms of Mal-adjustment :**
Track search NG, poor playability carriage runaway.

· **Measuring Equipment / Jig**	· Oscilloscope, L.P.F.
· **Measuring Point**	· TEY
· **Test Disc , Mode**	· ABEX TCD-784 (or SONY TYPE 4), TEST MODE
· **Adjustment Point**	· VR1002 (T.BAL VR)



Pull up the TOF terminal to the 5VA terminal with a 56kΩ resistor. (This is in order to cancel lens offset in the tracking direction.)

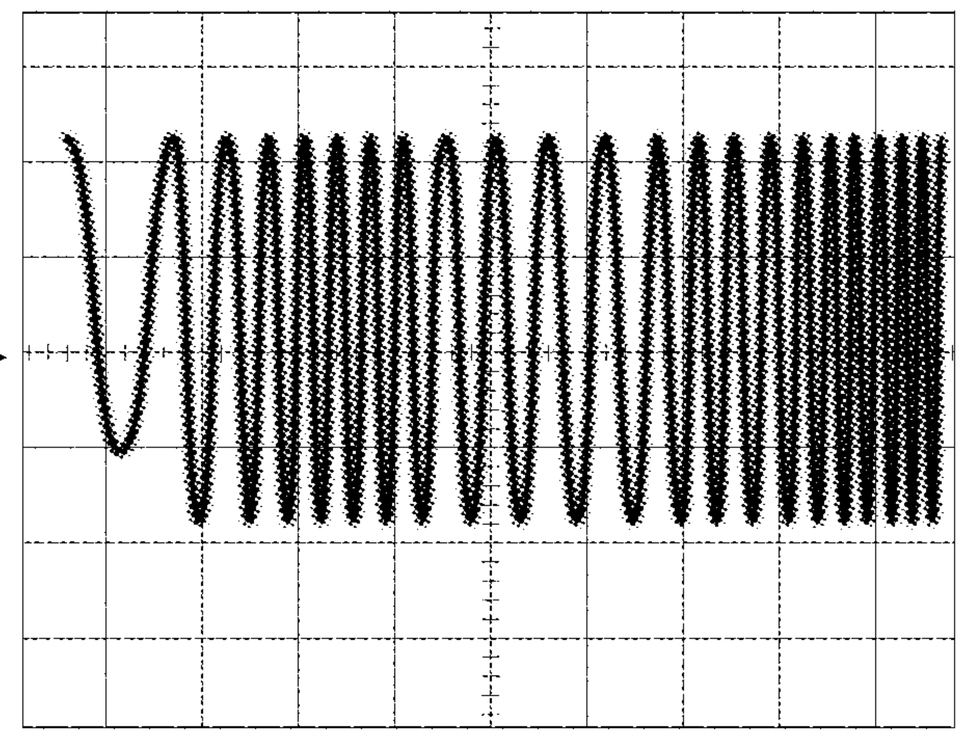
Adjustment Procedure
1.Load disc and switch the regulator on.
2.Position the PU unit in the center of the disc using the **TRK UP and TRK DOWN** keys.
3.Press key **RPT** to close focus and press once more to close spindle.
4.Observing the TEY waveform on the oscilloscope, adjust VR1002 (T.BAL) until the positive and negative halves have the same amplitude (see waveform 7–9).

Check
After adjustment the TEY waveform should have an amplitude of 1.5±0.65 Vpp (ABEX TCD-784 or SONY TYPE 4)
(Providing focus bias is OK)

DC Mode
0.5V/div.
5ms/div.

+5% NG

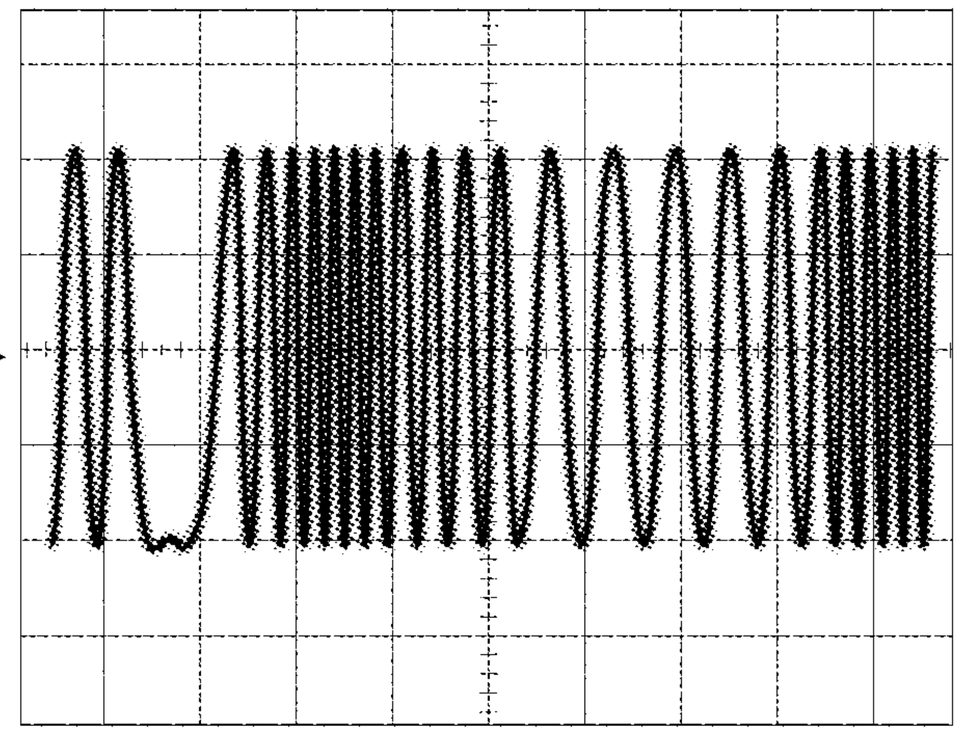
REFO →



Waveform 7

±0% OK

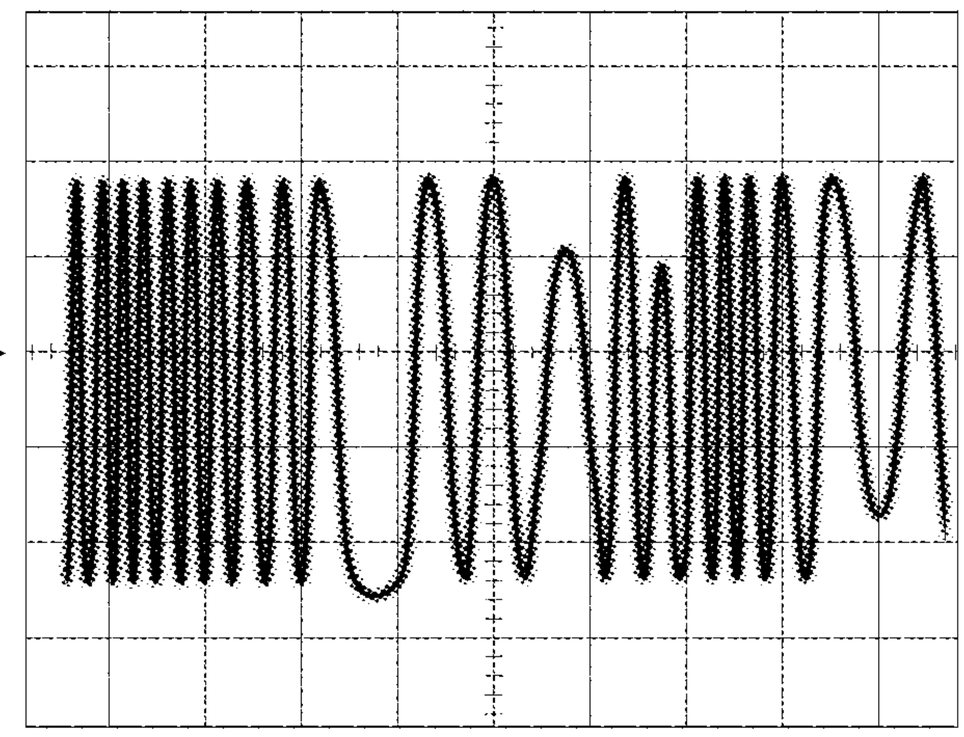
REFO →



Waveform 8

–5% NG

REFO →



Waveform 9

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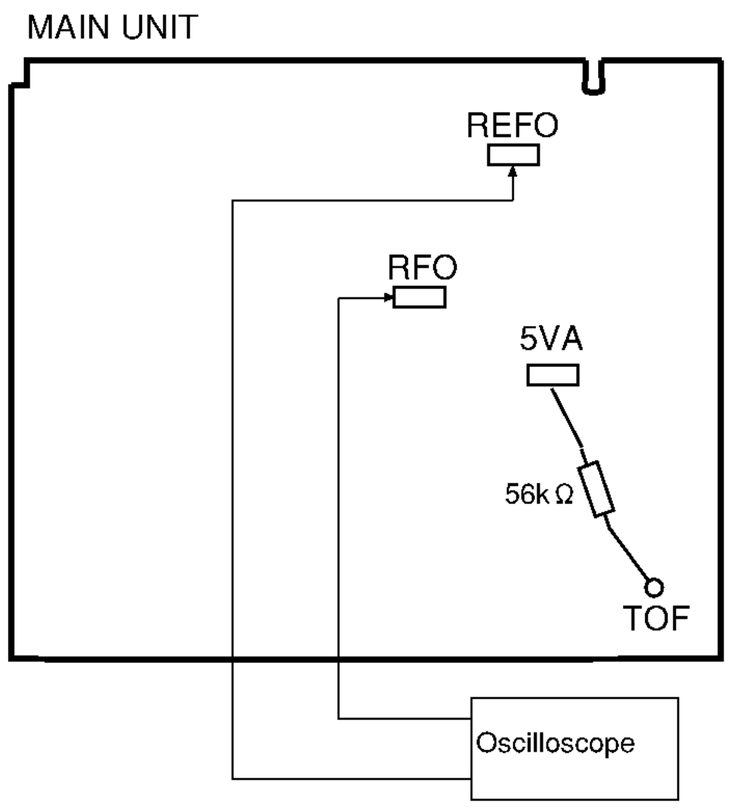
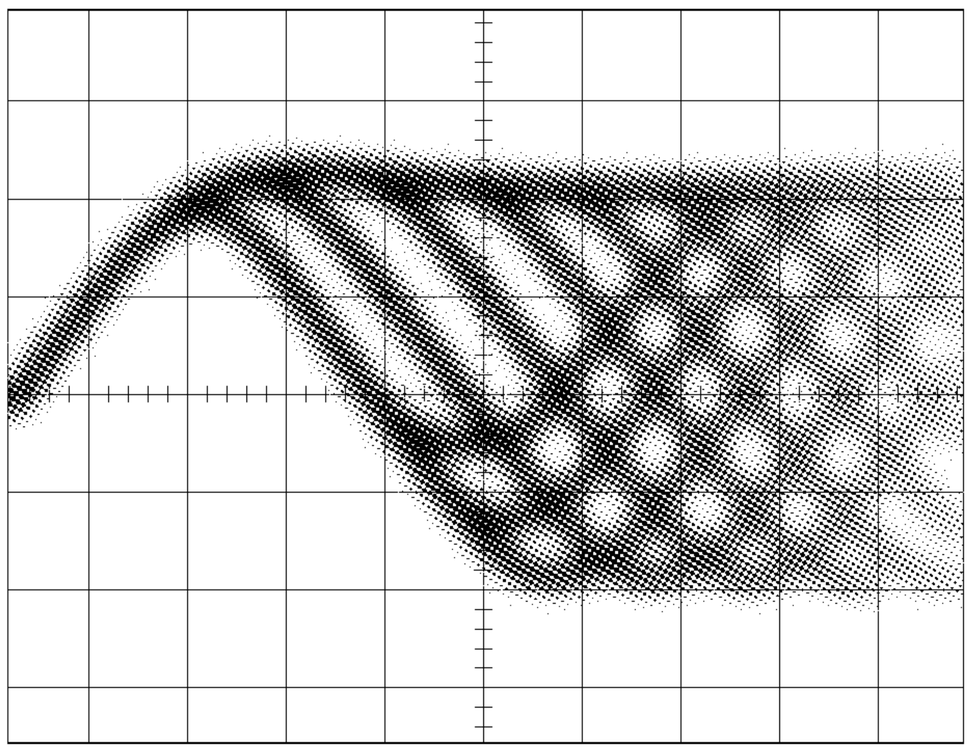
5 Focus Bias Adjustment

· **Purpose :**
To adjust the focus servo reference so that the RF waveform is an optimum.
· **Symptoms of Mal-adjustment :**
Difficulty in closing focus, poor playability.

· **Measuring Equipment / Jig**	· Oscilloscope
· **Measuring Point**	· RFO
· **Test Disc , Mode**	· ABEX TCD-784 (or SONY TYPE 4), NORMAL MODE
· **Adjustment Point**	· VR1003 (FE BIAS VR)

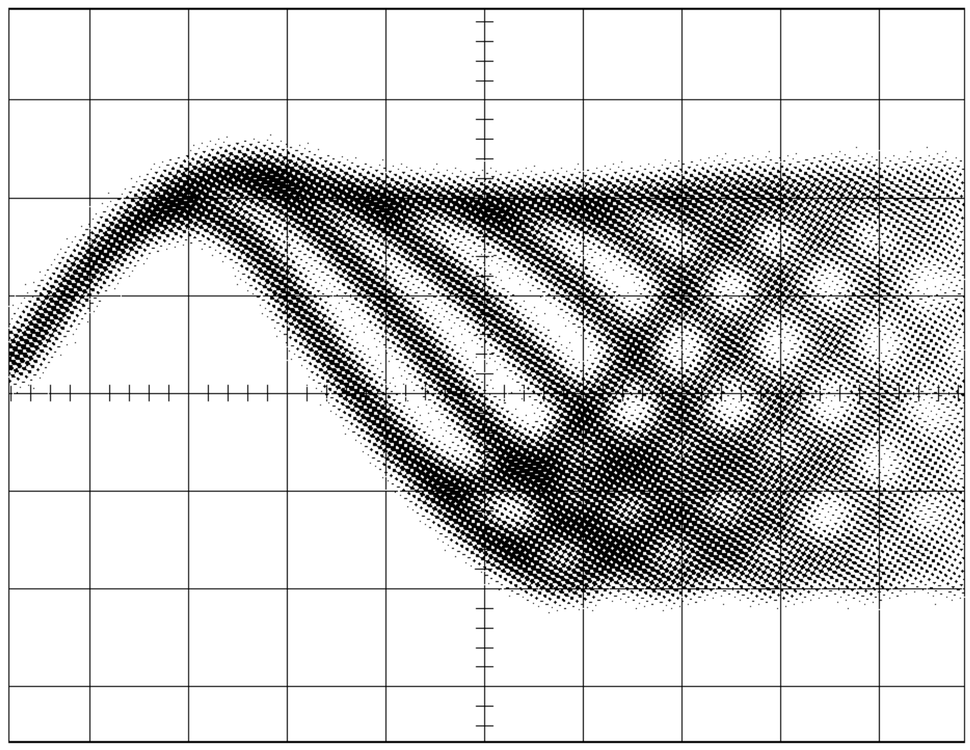


Pull up the TOF terminal to the 5VA terminal with a 56kΩ resistor. (This is in order to cancel lens offset in the tracking direction.)



OK

Waveform 10



NG

AC Mode Before adjustment Waveform 11

Adjustment Procedure

1. Play track number 18.
2. Observe the RFO from REFO on an oscilloscope, and adjust VR1003 (FE BIAS) so that the RF waveform is maximum and eye pattern is optimum. (See waveform 10, 11)

Check

After adjustment the RFO waveform should have an amplitude of 1.7±0.65 Vpp (ABEX TCD-784 or SONY TYPE 4)

3. Remove the pull-up resistor after completing adjustment.

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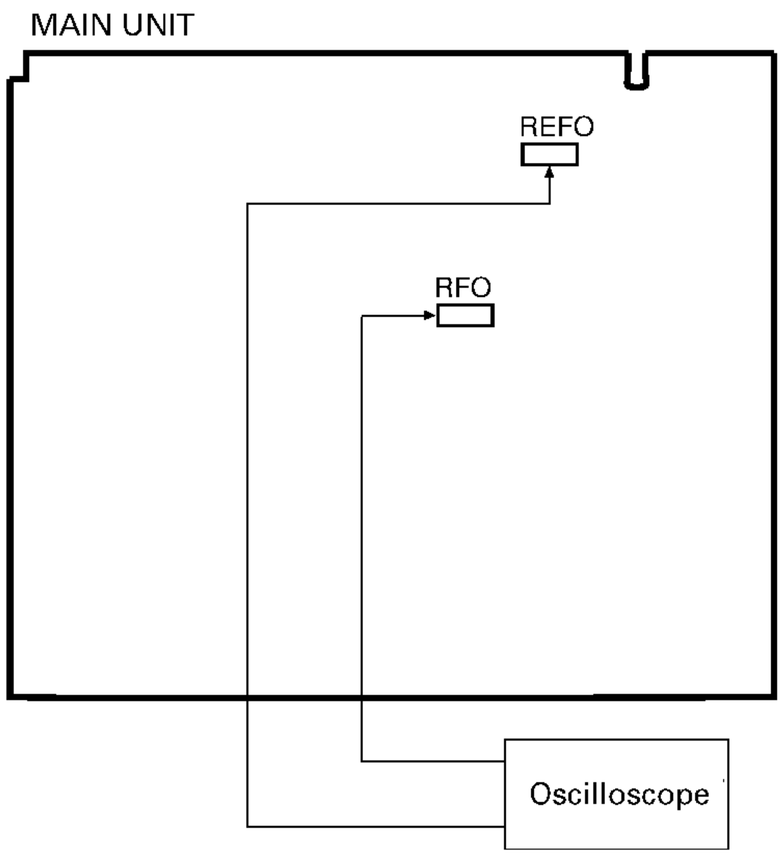
6 RFO Offset Adjustment

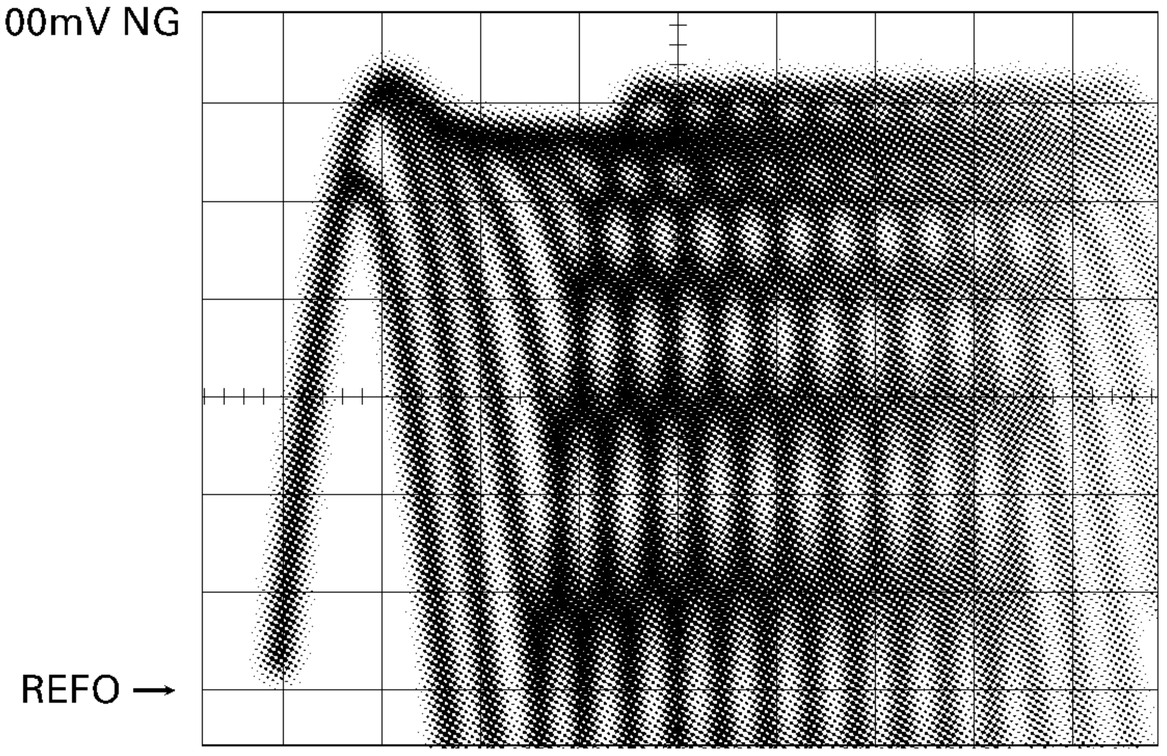
· **Purpose**
To adjust the RFO waveform offset to an optimum.
· **Symptoms of Mal-adjustment**
Difficulty in closing focus, poor playability.

· **Measuring Equipment / Jig**	· Oscilloscope
· **Measuring Point**	· RFO
· **Test Disc , Mode**	· ABEX TCD-784 (or SONY TYPE 4), NORMAL MODE
· **Adjustment Point**	· VR1004 (RFO OFFSET VR)

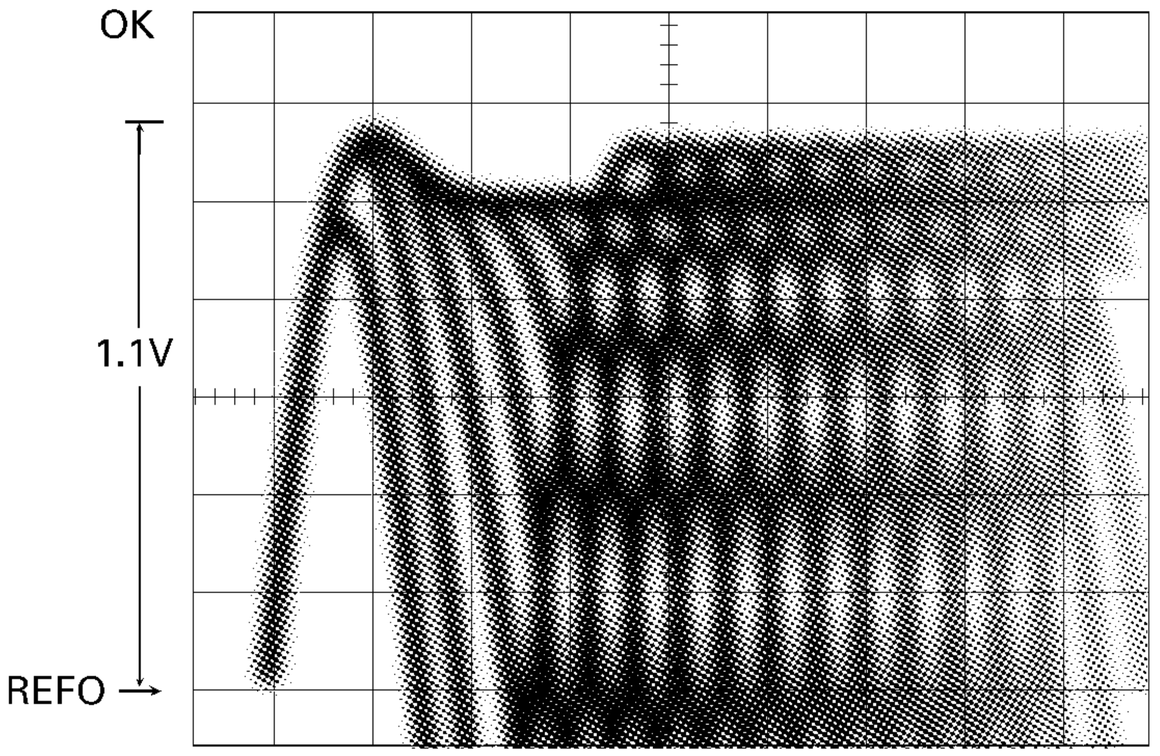


Adjustment Procedure
1. Make sure the TOF terminal's pull-up resistor has been disconnected.
2. Play track number 18.
3. Adjust VR1004 so that the peak value of the upper envelope of the RFO waveform is at +1.1VDC w.r.t. REFO(See waveform 12–14).

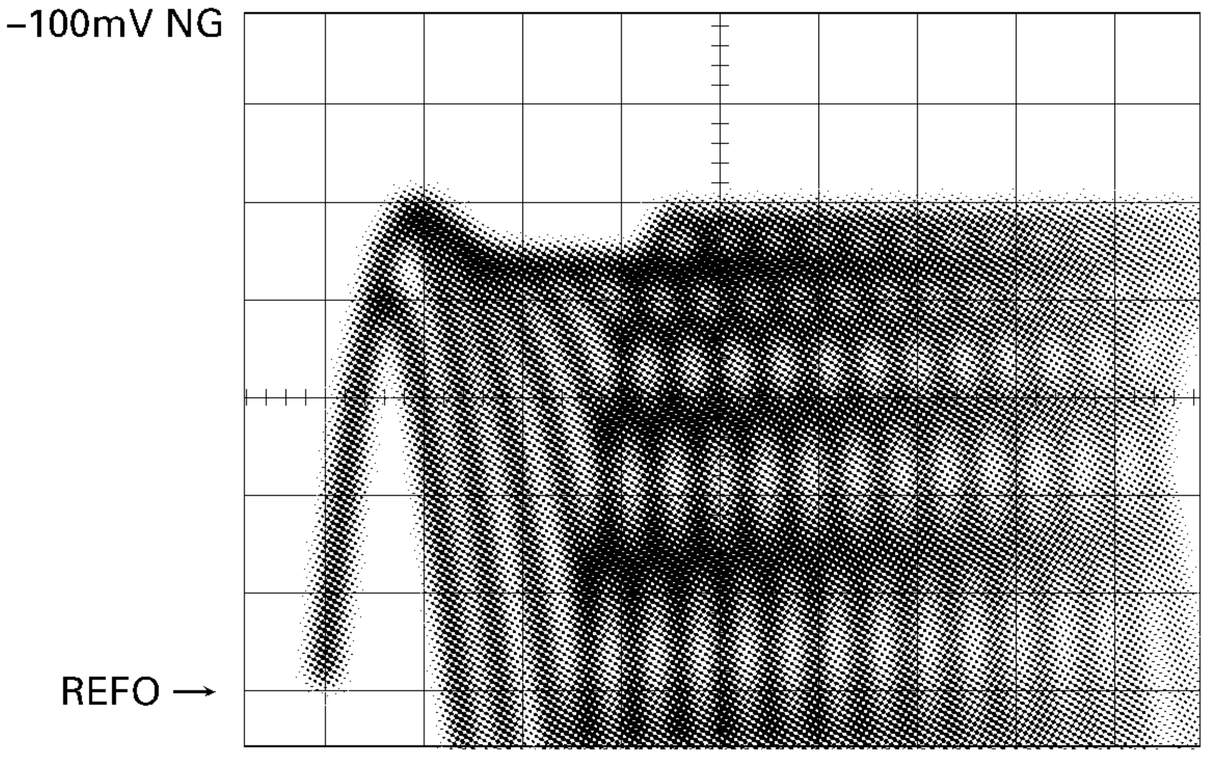
DC Mode
0.2V/div.
0.5µs/div.



Waveform 12



Waveform 13



Waveform 14

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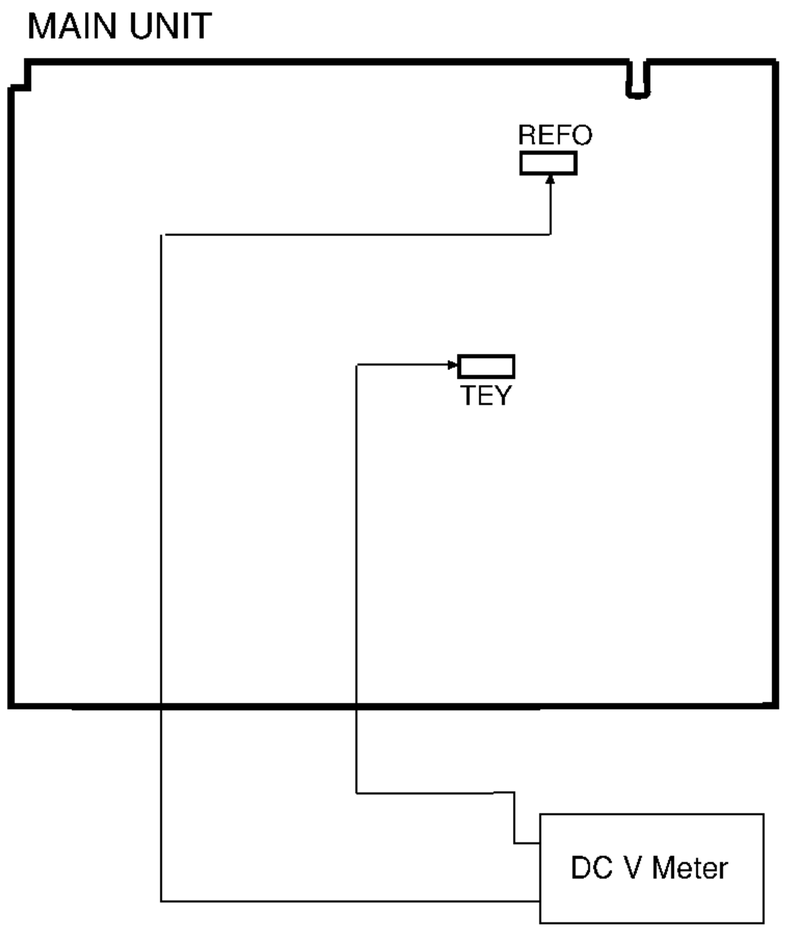
7 Tracking Error Offset Adjustment 2

· **Purpose :**
To check the offset of the tracking pre-amp is zero and adjust if necessary.
· **Symptoms of Mal-adjustment :**
Track search NG, carriage runaway, poor playability.

· **Measuring Equipment / Jig**	· DC V Meter
· **Measuring Point**	· TEY
· **Test Disc , Mode**	· No disc, TEST MODE
· **Adjustment Point**	· VR1001(TE OFFSET VR)

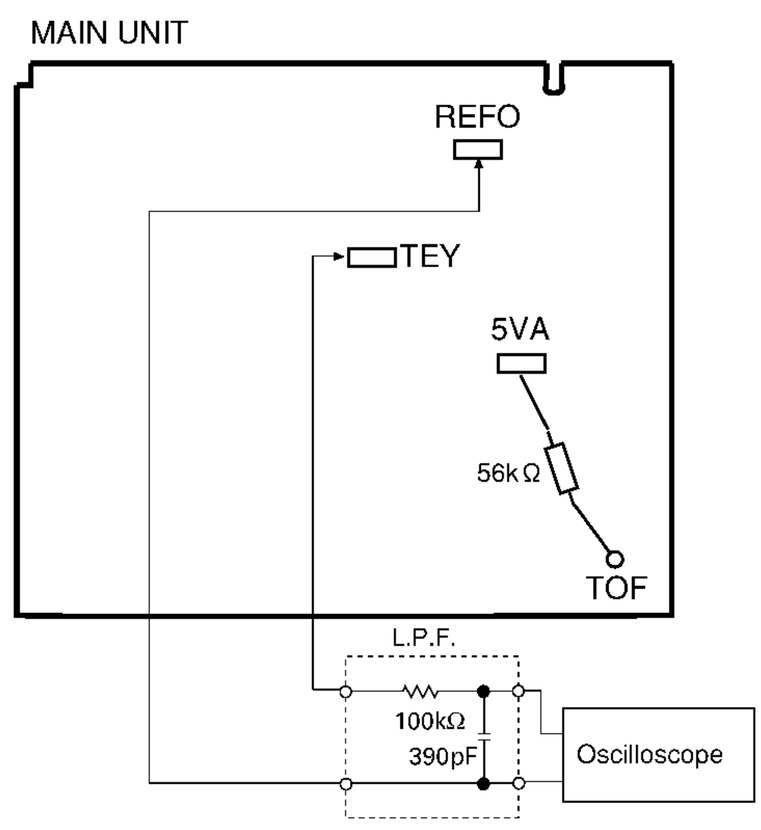


Adjustment Procedure
1.Switch the regulator on.
2.Confirm that the DC voltage of TEY from REFO is 0±25mV.
3.If not, readjust and proceed to tracking balance adjustment 2.

8 Tracking Balance Adjustment 2

· **Purpose :**
To equate the sensitivity of the F channel to that of the E channel.This needs only be done if the TE OFF-SET volume was re-adjusted in the previous step.
· **Symptoms of Mal-adjustment:**
Track search NG,poor playability, carriage runaway.

· **Measuring Equipment / Jig**	· Oscilloscope, L.P.F.
· **Measuring Point**	· TEY
· **Test Disc , Mode**	· ABEX TCD-784 (or SONY TYPE 4), TEST MODE
· **Adjustment Point**	· VR1002 (T.BAL VR)



Pull up the TOF terminal to the 5VA terminal with a 56kΩ resistor. (This is in order to cancel lens offset in the tracking direction.)

Adjustment Procedure
1.Load disc and switch the regulator on.
2.Position the PU unit in the center of the disc using the **TRK UP and TRK DOWN** keys.
3.Press key **RPT** to close focus and press once more to close spindle.
4.Observing the TEY waveform on the oscilloscope, adjust VR1002 (T.BAL) until the positive and negative halves have the same amplitude (See waveform 7–9).

Check
After adjustment the TEY waveform should have an amplitude of 1.5±0.65 Vpp. (ABEX TCD-784 or SONY TYPE 4)
5. Remove the pull-up resistor after completing adjustment.

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7. GENERAL INFORMATION

7.1 IC

● **Pin Functions (PD5409B)**

Pin No.	Pin Name	I/O	Format	Function and Operation
1	$\overline{\text{TIN}}$	I		Disc sense timing input
2	TEMP	I		Temperature detector
3	VDIN	I		Power supply short sensor input
4	$\overline{\text{CLAMP}}$	I		Tray position input
5	IEIN	I		IE-BUS data input
6	IEOUT	O	C	IE-BUS data output
7	IEPW	O	C	IE-BUS driver power supply control output
8	A0	O	C	Control signal distingshing from LSI
9	$\overline{\text{XSCK}}$	I/O	C	LSI clock input/output
10	XSO	O	C	LSI data output
11	XSI	I		LSI data input
12	$\overline{\text{STB}}$	O	C	LSI strobe output
13	$\overline{\text{RST}}$	O	C	LSI reset output
14	NC			Not used
15	$\overline{\text{DACRST}}$	O	C	D/A converter reset output
16	$\overline{\text{ASENS}}$	I		ACC power sense input
17	$\overline{\text{BSENS}}$	I		Back up power sense input
18,19	NC			Not used
20	ANSW	O	C	Analog switch output
21-23	NC			Not used
24	$\overline{\text{EJSW}}$	I		Eject key switch interrupt input
25	$\overline{\text{MAG}}$	I		Magazine lock switch interrupt input
26	NC			Not used
27	$\overline{\text{RESET}}$	I		Reset input
28	POWER	O	C	CD +5V control
29	CONT	O	C	Servo driver power supply control
30	XIN	I		Crystal oscillating element connection pin
31	XOUT	O		Crystal oscillating element connection pin
32	VSS			GND
33-41	NC			Not used
42	$\overline{\text{MMSEN}}$	I		Multi / audio input
43-49	NC			Not used
50	OPTSW	I		Digital output ON/OFF input
51-54	NC			Not used
55	VMCONT	O	C	VM voltage control output
56	NC			Not used
57	$\overline{\text{EJP}}$	I		Reset position switch input
58	$\overline{\text{EJLED}}$	O	C	Eject key illumination control output
59	SYSMUT	O	C	System mute output
60	MIRR	I		Mirror detector input
61	LOCK	I		Spindle lock detector input
62	FOK	I		FOK signal input
63	$\overline{\text{HOME}}$	I		Home position detector input
64	NC			Not used
65	LOAD	O	C	Mechanism power supply control
66-69	I3,I1,I2,I4	O	C	Motor driver control output
70	$\overline{\text{CDMUTE}}$	O	C	CD mute output
71	NC			Not used
72	$\overline{\text{TESTIN}}$	I		Test program mode input
73	VCC			Back up 5V
74	VREF	I		A/D converter reference voltage input
75	AVSS	I		A/D converter GND

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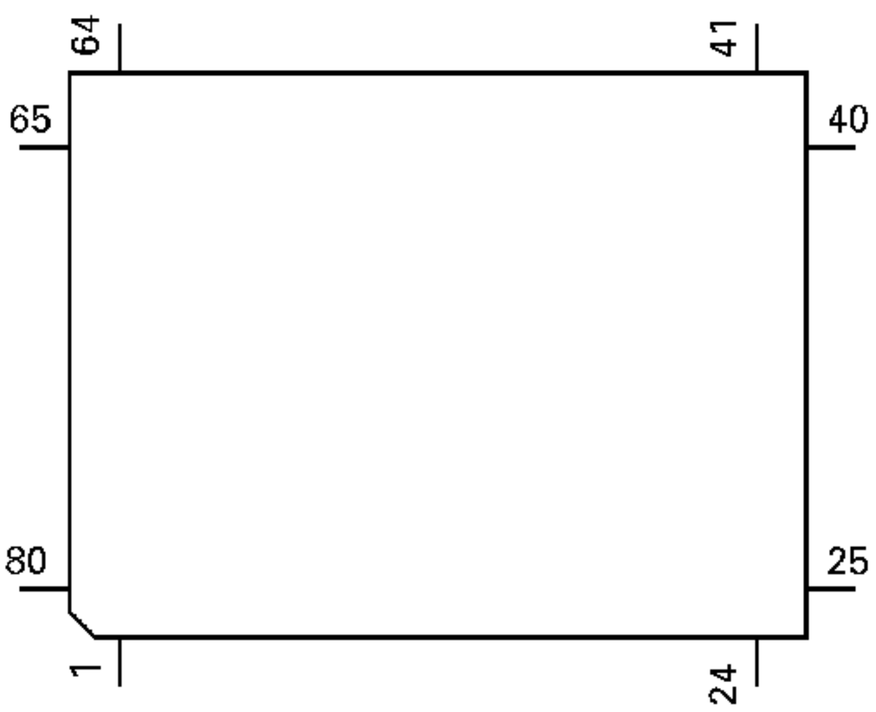
Pin No.	Pin Name	I/O	Format	Function and Operation
76,77	NC			Not used
78	$\overline{\text{DISK}}$			Disc detector input
79	$\overline{\text{TSEL}}$	I		Tray position detector photo sensor
80	NC			Not used

*PD5409B



Format	Meaning
C	C MOS

IC's marked by are MOS type.*
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

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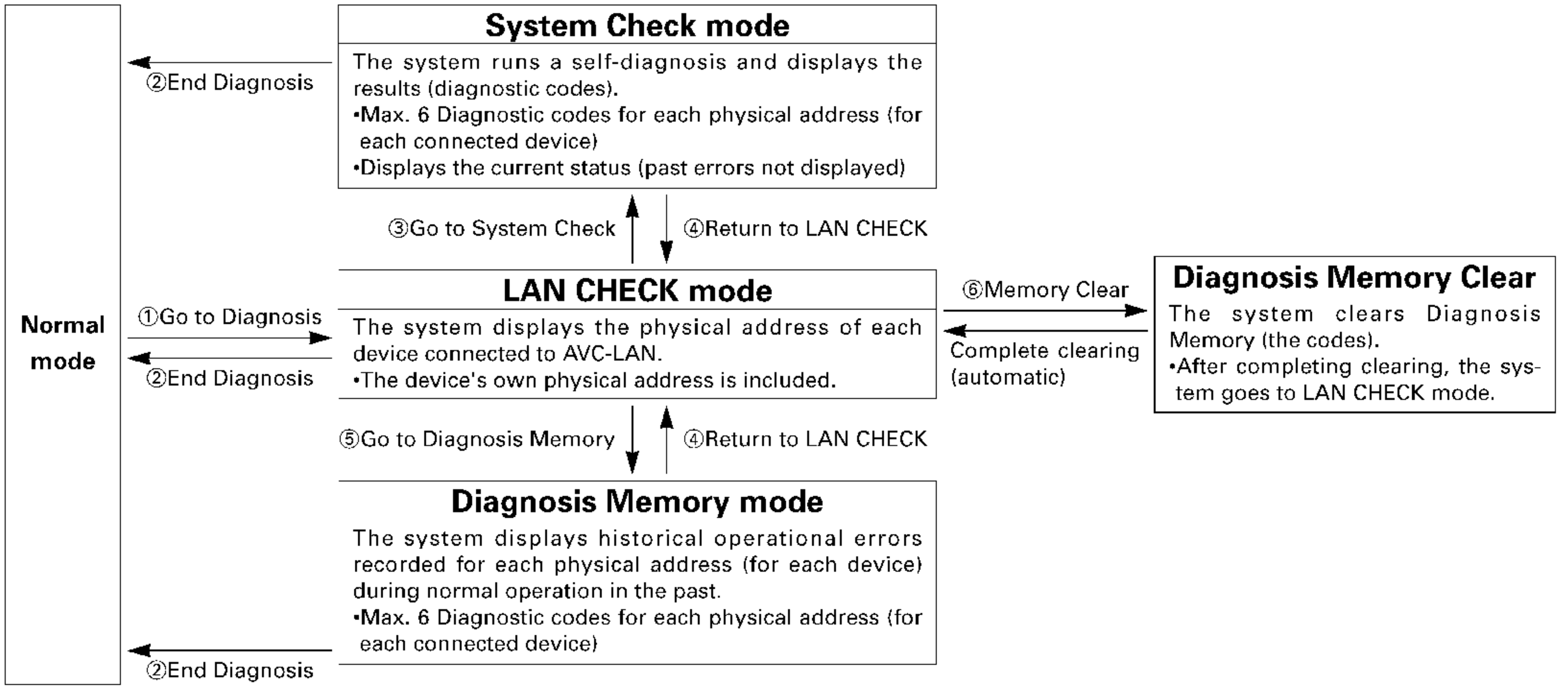
● **AVC-LAN Diagnosis Mode**

● **Flowchart and Functions**


System Check mode
The system runs a self-diagnosis and displays the results (diagnostic codes).
•Max. 6 Diagnostic codes for each physical address (for each connected device)
•Displays the current status (past errors not displayed)
②End Diagnosis
③Go to System Check
④Return to LAN CHECK
LAN CHECK mode
The system displays the physical address of each device connected to AVC-LAN.
•The device's own physical address is included.
Normal mode
①Go to Diagnosis
②End Diagnosis
⑥Memory Clear
Complete clearing (automatic)
Diagnosis Memory Clear
The system clears Diagnosis Memory (the codes).
•After completing clearing, the system goes to LAN CHECK mode.
⑤Go to Diagnosis Memory
④Return to LAN CHECK
Diagnosis Memory mode
The system displays historical operational errors recorded for each physical address (for each device) during normal operation in the past.
•Max. 6 Diagnostic codes for each physical address (for each connected device)
②End Diagnosis

● **Operation Specifications**

	KEX-M8076ZT/UC
①Go to Diagnosis	Press the CD key three times, while holding down CH1 or CH6.
②End Diagnosis	CD key (Press and hold for 1.7 seconds.)
	ACC OFF/ON
③Go to System Check	CH1
④Return to LAN CHECK	CH6
⑤Go to Diagnosis Memory	CH2
⑥Memory Clear	CH5 (Press and hold for 1.7 seconds.)
•Page up	TUNE +
•Page down	TUNE -

● Physical Address Assignment

② →

③ ↓

① 1	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	M.DISP computer				AV machine	1DIN -TV	EMV		Audio ECU	Audio H/U		Rear seat TV	Rear control SW		CD-CH commander	
8								CD-ROM navigation				Display with SW			MD-CH commander	
1-8 A-F																

① 2	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Navigation computer	ATIS	FM multiple	TV tuner	CD-CH with video											
1-F																

① 3	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Radio		Cassette	Radio/cassette without CH controller	CD-P		CD-CH		MD-P		MD-CH		DAT		DCC	
8																TEL ECU
1-7 9-F																

① 4	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Equalizer				DSP				H. W AMP							
1-F																

① 5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	GPS receiver	ATIS decoder	FM multiplex decoder		CD-CH		MD-CH		CD-ROM -CH		MD-ROM -CH					
1-F																

① 6	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	A/C computer								Body computer							
1-F																

Display

1 — ①②③

Serial No. Physical address

Example: 2—190

‖

The second device connected is an "audio H/U."

①Device groups

1 : Controllers
2 : Video output devices
3 : Audio output devices
4 : Audio processing devices
5 : Information output devices
6 : Vehicle devices

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● Assignment of Diagnostic Codes

① →

② ↓	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NO ERR	+B error	Microprocessor error			Cassette deck error	CD deck or CD-CH error	MD deck or MD-CH error	Amplifier error	EQ error	Switch error	AUDIO ECU error		No response to communications		
1		ACC error	ROM error		AM tuner error	Cassette deck EJT failure	CD, CH EJT failure	MD, CH ←						Communications failure		
2		MUTE error	RAM error		FM tuner error	Tape entangled in the cassette deck	Dirt, scar and upside-down in CD, CH	MD, CH ←						No response to periodical communications		
3						Dirt in cassette deck head	Detected P.U temperature in CD, CH	MD, CH ←								
4						Broken cassette deck belt	Detected overcurrent in CD, CH	MD, CH ←						*1		
5					TV tuner error			MD, CH recording function error								
6																
7							CH tray error									
8							CH elevator error	CH ←	DSP error	LCD error	Antenna error					
9							CD, CH clamp error	MD, CH ←			Main antenna error					
A											Sub antenna error					
B											TV antenna error					
C											Antenna selector error					
D/E																
F																No response to Diagnosis

Common Diagnostic code among devices

Diagnostic code specific to a particular device

Diagnostic code for communications

Display

1 — ①②

Serial No. Diagnostic code

Example: 3—D2

‖

The third content of Diagnosis is "No response to periodical communications."

NOTES:

*1 Instruction to check for an error in periodical communications is interrupted.

● Items corresponding each model

<During Diagnosis Memory mode>

- CDX-M8076ZT/E (CD-CH)
- CDX-M8176ZT/E (CD-CH)
- CDX-M8476ZT/UC (CD-CH)

D1, D2, D4, 60, 61, 62, 63, 64, 67, 68

<During System Check mode>

- CDX-M8076ZT/E (CD-CH)
- CDX-M8176ZT/E (CD-CH)
- CDX-M8476ZT/UC (CD-CH)

No Diagnostic code assigned 00

CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91,
CDX-M8476ZT,M8476ZT-91

● Go to Diagnosis (Beep and Display)

	LAN-CHECK mode	System Check mode	Diagnosis Memory mode
Beep	• The system beeps three times when starting up Diagnosis.	• The system beeps three times when changing to another mode. • The system beeps once every time a physical address is displayed.	• The system beeps three times when changing to another mode. • The system beeps once every time a physical address is displayed.
Display	• The system displays the physical address of each device connected to AVC-LAN in sequence from the lowest address. Example: 1 — 1E0 Serial No. / Physical address (CD commander)	• When changing to another mode Blinking "SYS" is displayed. • After completing System Check Displays a physical address. ••Identifies the device. Example: H 150 Physical address (1DIN-TV) Distinguishes from LAN-CHECK. Displays a Diagnostic code. ••Identifies the type of error. Example: 1 — d2 Serial No. / Diagnostic code (no response to periodical communications) Max. 6 for each physical address Displays an auxiliary code ••Identifies the device involved in the error. Example: 1 — 360 Serial No. / Physical address (CD-CH) 1DIN-TV has recorded an error indicating there is no response to periodical communications in CD-CH. 1 — ——— When there is no physical address: Displays a physical address. The next lowest physical address • When there is no Diagnostic code after completion of System Check _____ 00 The system changes as shown above, as this unit does not include System Check.	• When changing to another mode Blinking "CODE" is displayed. • Then, "Latest periodical communications number" is displayed. ••Elapsed time at the current point is displayed. Example: ____ 1F Elapsed time (31 minutes) • The system displays a number from 00 to FF (increases a digit every minute). • When 256 minutes are reached, the system returns to 00. • Displays the details of Diagnosis. Displays a physical address. (Same as the left.) Displays a periodical communications number. ••Displays the time when the error occurred. Example: 1 — 02 Serial No. / Elapsed time (2 minutes) Displays Diagnostic code. (Same as the left.) Displays an auxiliary code. (Same as the left.) Displays a physical address. • When there is no Diagnostic data: _____ 00

7.2.2 DISASSEMBLY

● **Removing the Case and Holder(Fig.30) (CDX-M8076ZT/E, M8176ZT/E)**

1. Remove the seven screws.
2. Remove the upper case, lower case and holder.

● **Removing the Grille Assy(Fig.30) (CDX-M8076ZT/E, M8176ZT/E)**

1. Press the four tabs indicated by arrows and then pull out the grille assy.

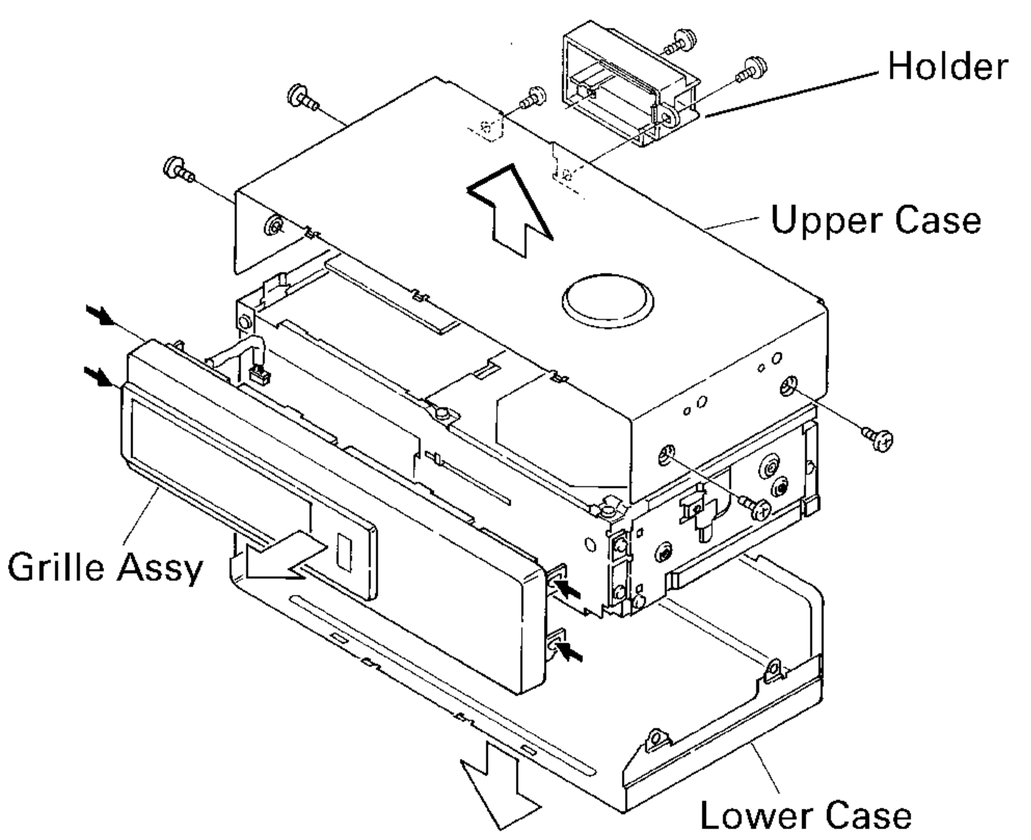

Fig. 30

● **Removing the Case and Holder(Fig.31) (CDX-M8476ZT/UC)**

1. Remove the six screws.
2. Remove the upper case, lower case and holder.

● **Removing the Grille Assy(Fig.31) (CDX-M8476ZT/UC)**

1. Press the four tabs indicated by arrows and then pull out the grille assy.

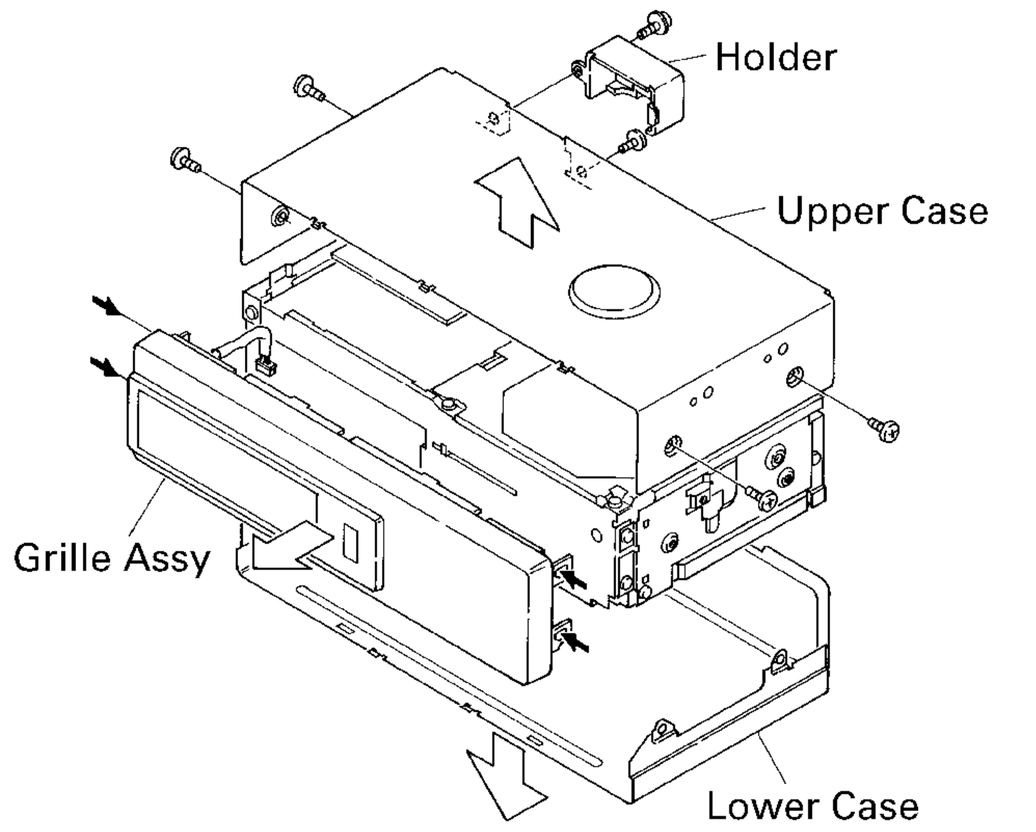

Fig. 31

● **Removing the Extension PCB(Fig.32)**

1. Remove the one screw.
2. Unbend the two tabs indicated by arrows until straight.
3. Remove the extension PCB.

● **Removing the Main Unit(Fig.32)**

1. Remove the two screws and earth plate.
2. Unbend the tab indicated by arrow until straight.
3. Remove the main unit.

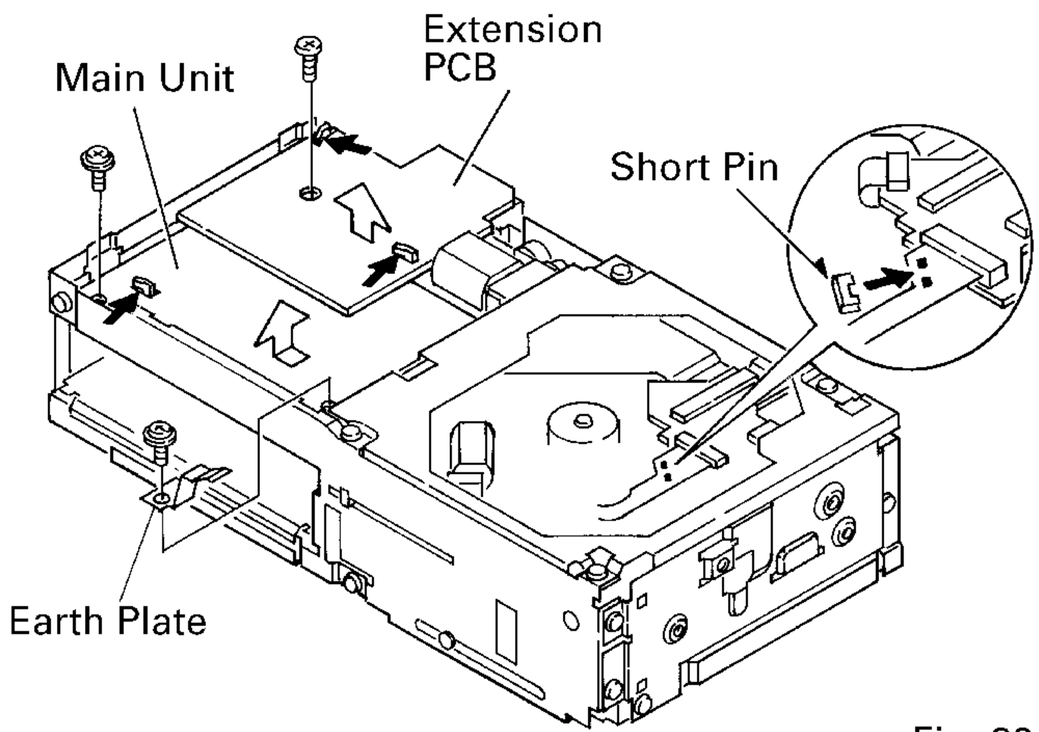

Fig. 32

Before disconnecting the connector, attach a short pin as illustrated.

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7.2.3 TEST MODE

● ERROR NUMBERS INDICATION

If the CD should fail to operate in CD multi player or if an error has taken place during the operation and resulted in an error, the player will enter into the error mode. And the cause of such error is numerically indicated.
This is aimed at assisting an analysis or repair.
Error mode ..... Mode (A), Mode (B)

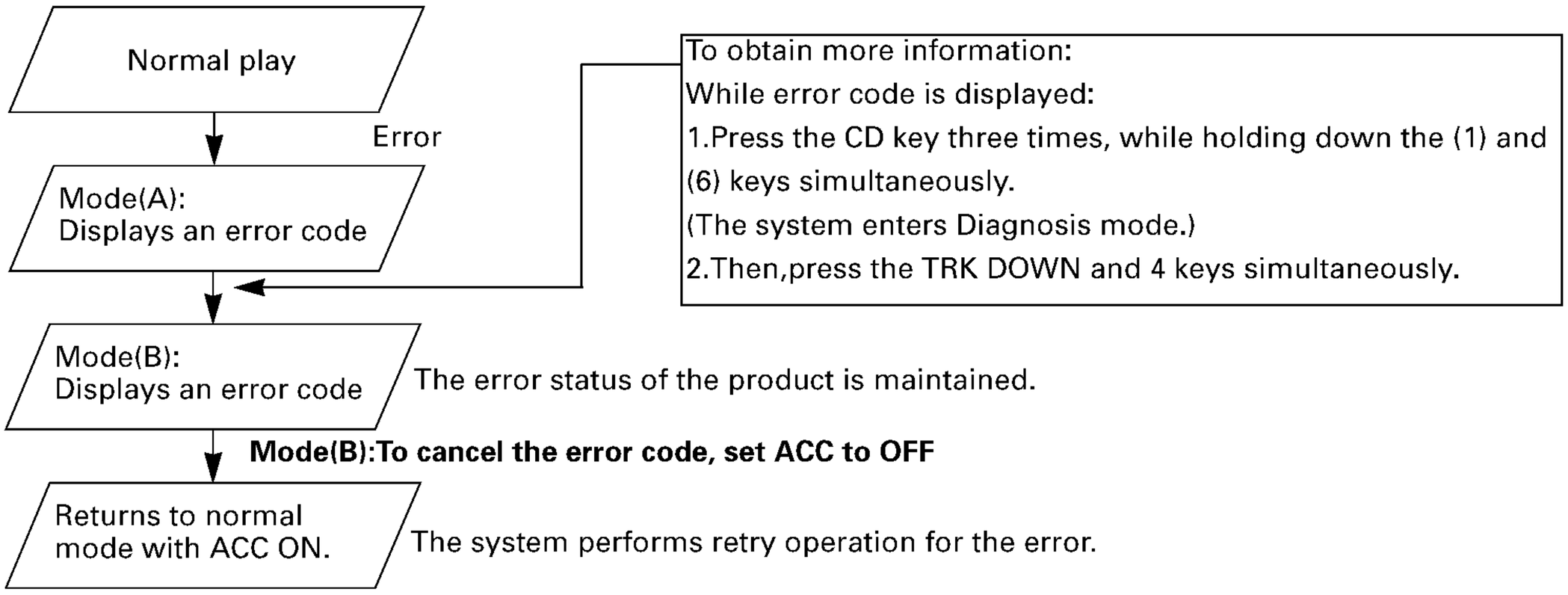
(1) Examples of Display

- Mode (A) ..... ERR-X
- Mode (B) ..... ERR-XX

(2) Error Codes

*1	*2	Classification	Description	Cause/Detail
1	10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile
	11	ELECTRIC	Focus failure	Focus failed →Defects, disc upside-down, severe vibration
	12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration
	14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
	17	ELECTRIC	Set up failure	AGC protect failed →Defects, disc upside-down, severe vibration
	30	ELECTRIC	Search time out	Failed to reach target address →Carriage/tracking defective and/or defects
4	A0	SYSTEM	Power failure	Power overvoltage or short circuit detected →Switching transistor defective and/or power abnormal
	50	MECHANISM	An error upon ejection	MAG switch release time has time out Elevation time out when eject
3	60	MECHANISM	An error while putting in and out the tray	Tray in / out time has time out Tray is caught when put in
	70	MECHANISM	An error upon elevation	Elevation time has time out
2	80	MECHANISM	An error with an empty magazine inserted	No disc is available

- *1 ..... Mode (A) error code
- *2 ..... Mode (B) error code


Normal play
Error
Mode(A):
Displays an error code
Mode(B):
Displays an error code
The error status of the product is maintained.
Mode(B):To cancel the error code, set ACC to OFF
Returns to normal
mode with ACC ON.
The system performs retry operation for the error.
To obtain more information:
While error code is displayed:
1.Press the CD key three times, while holding down the (1) and (6) keys simultaneously.
(The system enters Diagnosis mode.)
2.Then,press the TRK DOWN and 4 keys simultaneously.

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7.2.4 CONNECTOR FUNCTION DESCRIPTION

● CDX-M8076ZT/E

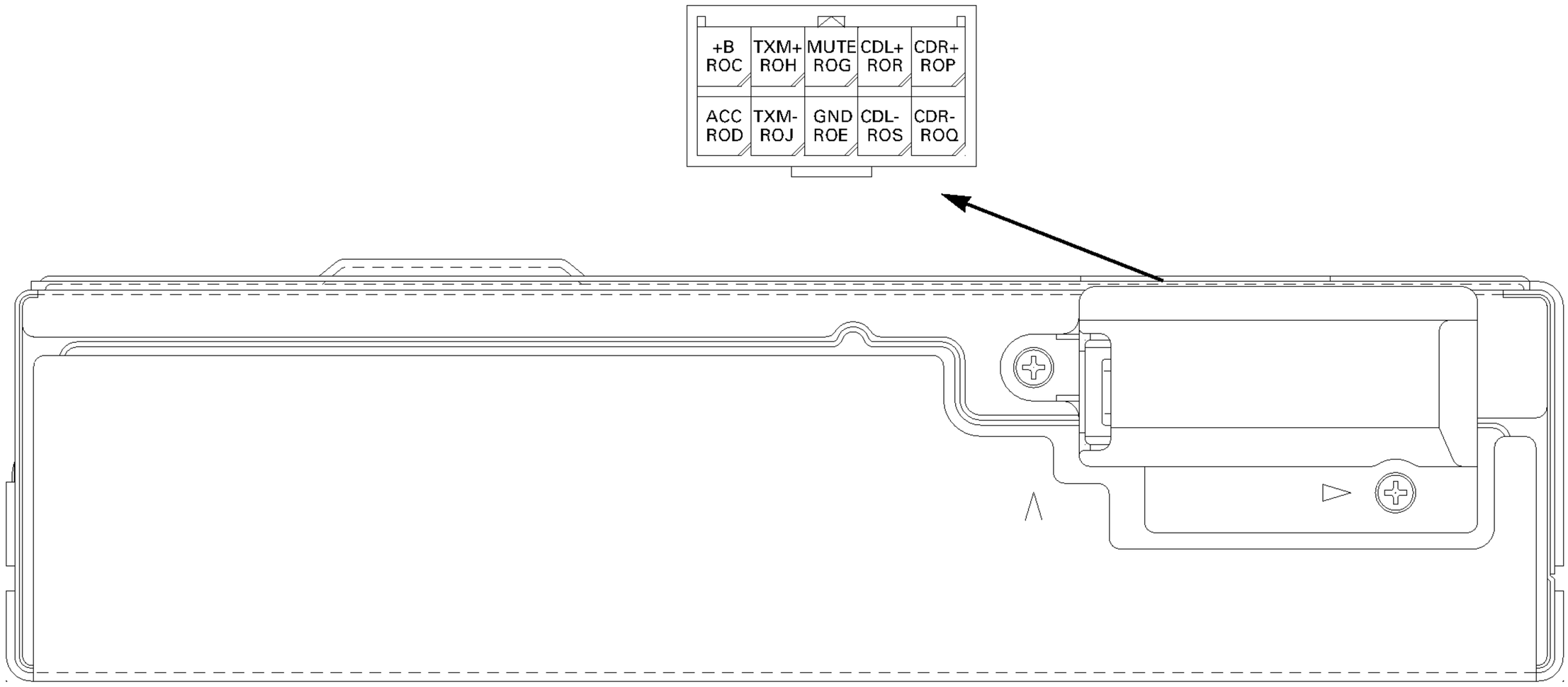

Fig. 33

● CDX-M8176ZT/E

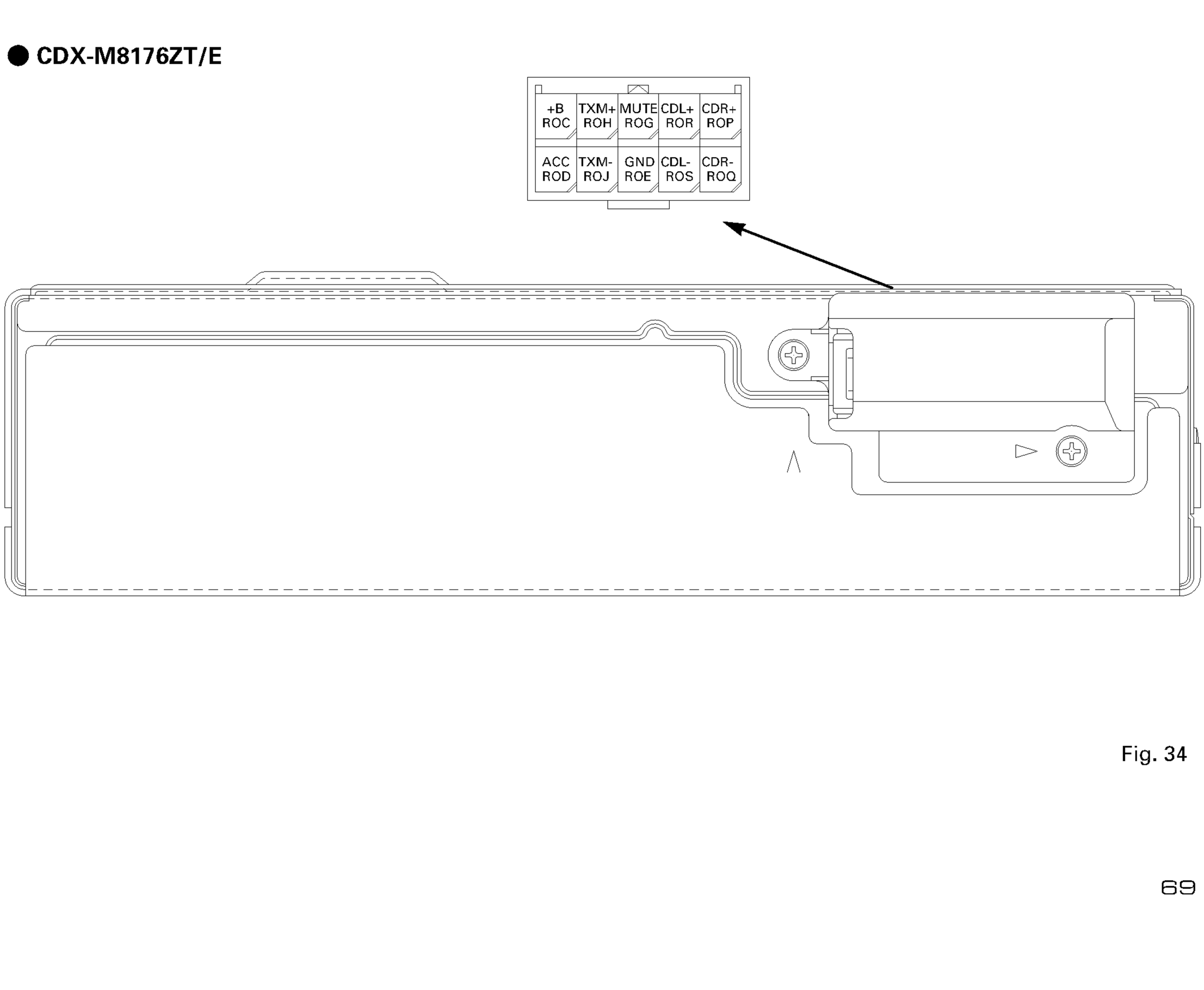

Fig. 34

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CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91, CDX-M8476ZT,M8476ZT-91

● **CDX-M8476ZT/UC**

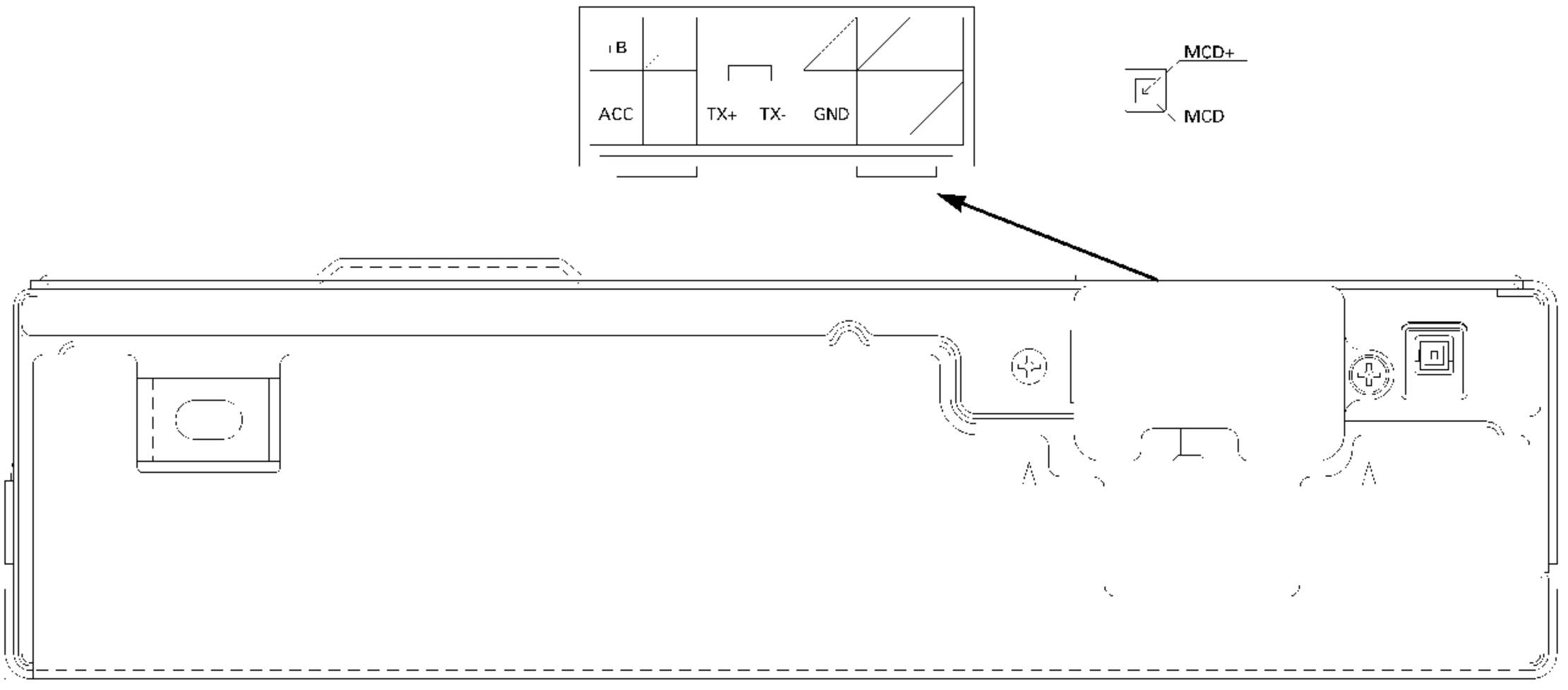

Fig. 35

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7.3 EXPLANATION

7.3.1 SYSTEM BLOCK DIAGRAM

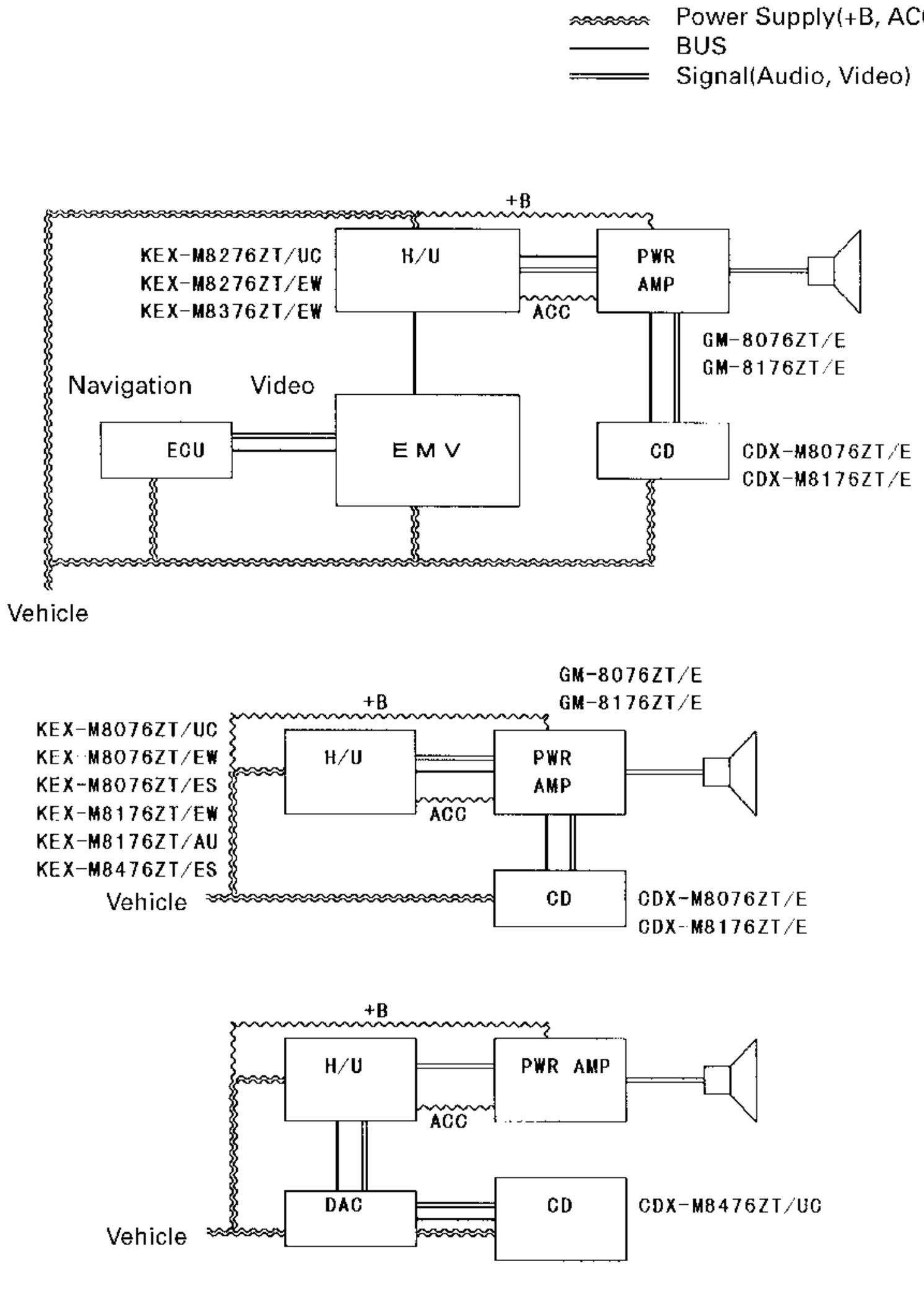

Fig. 36

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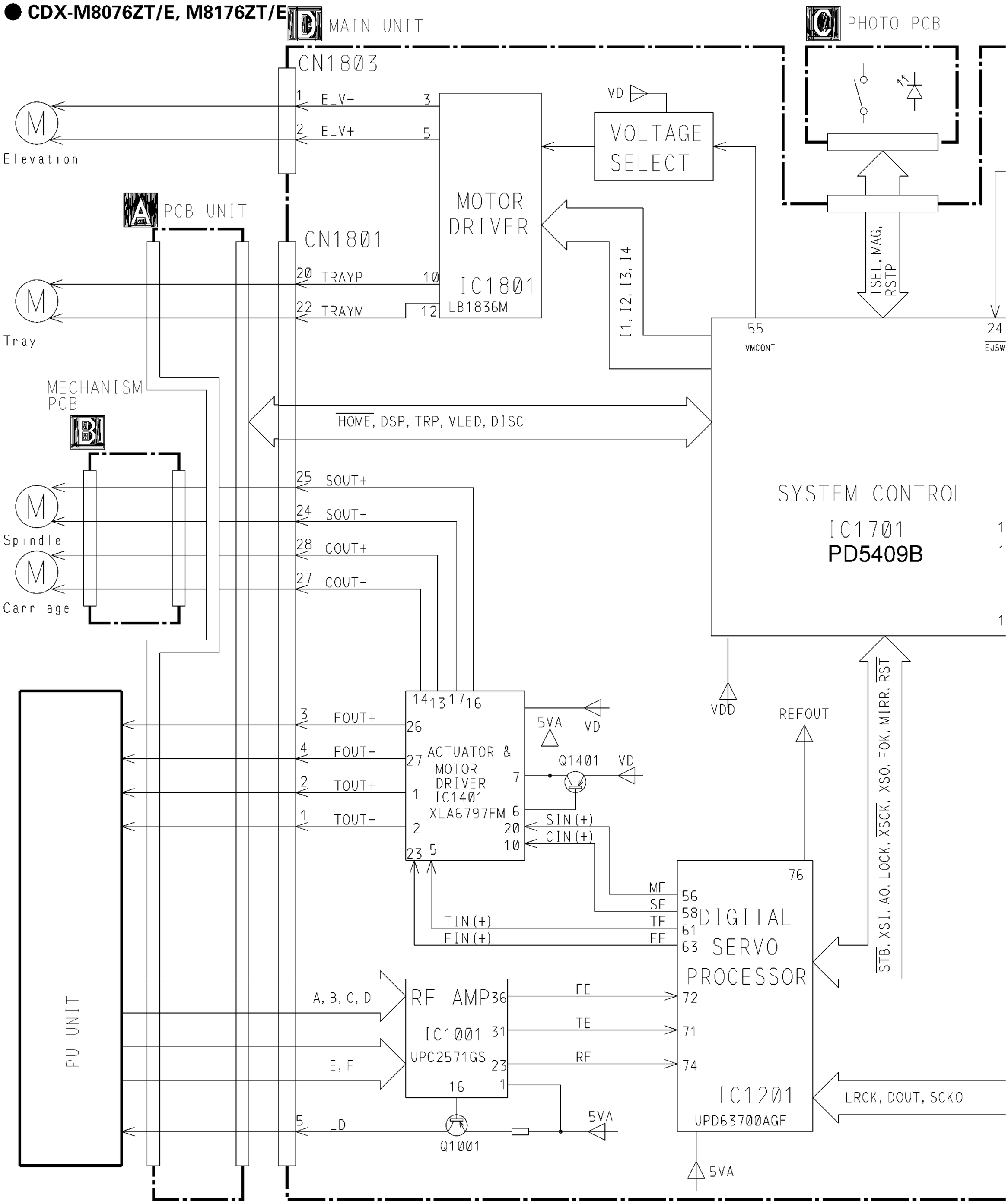
7.3.2 BLOCK DIAGRAM

● CDX-M8076ZT/E, M8176ZT/E



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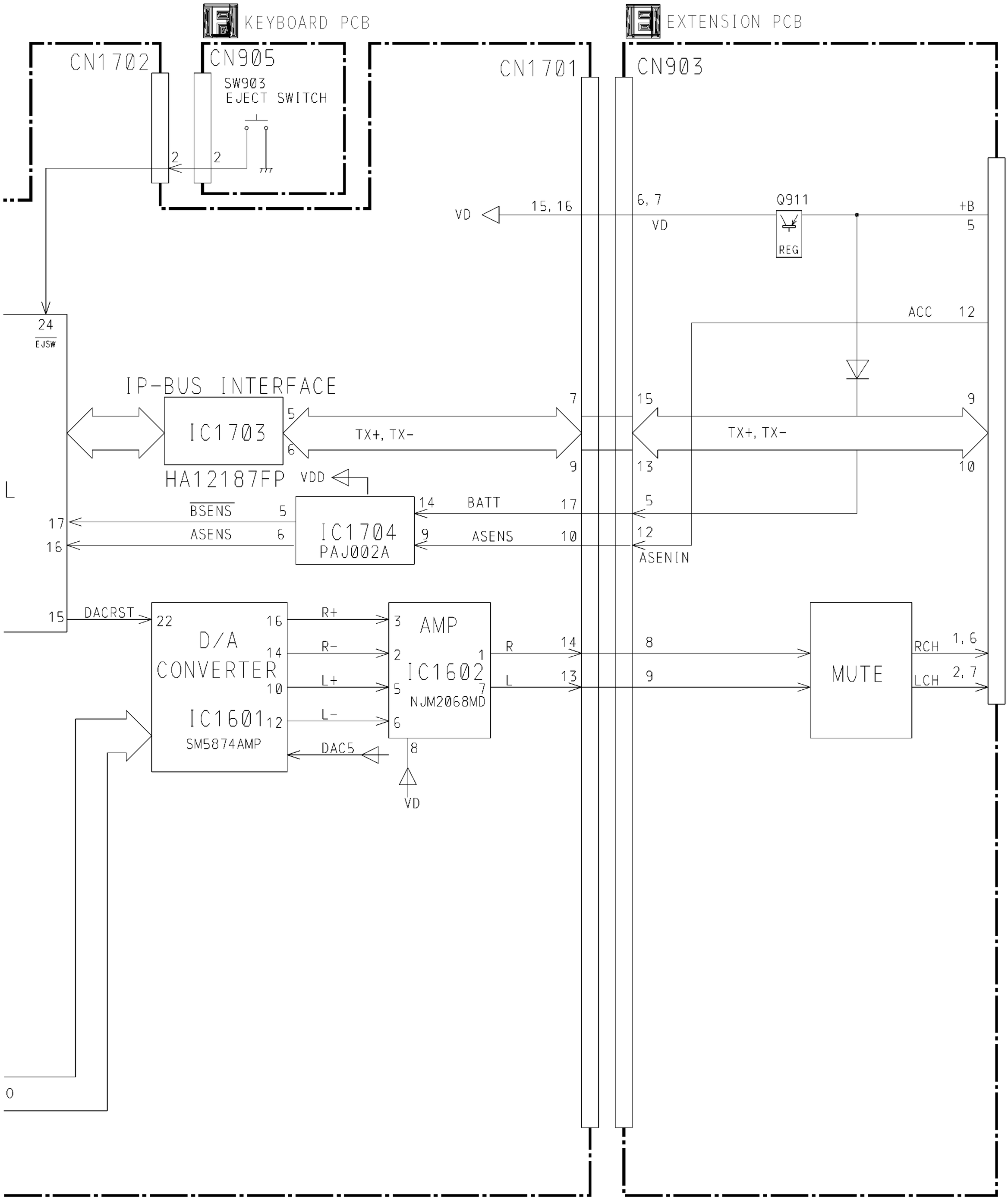

Fig. 37

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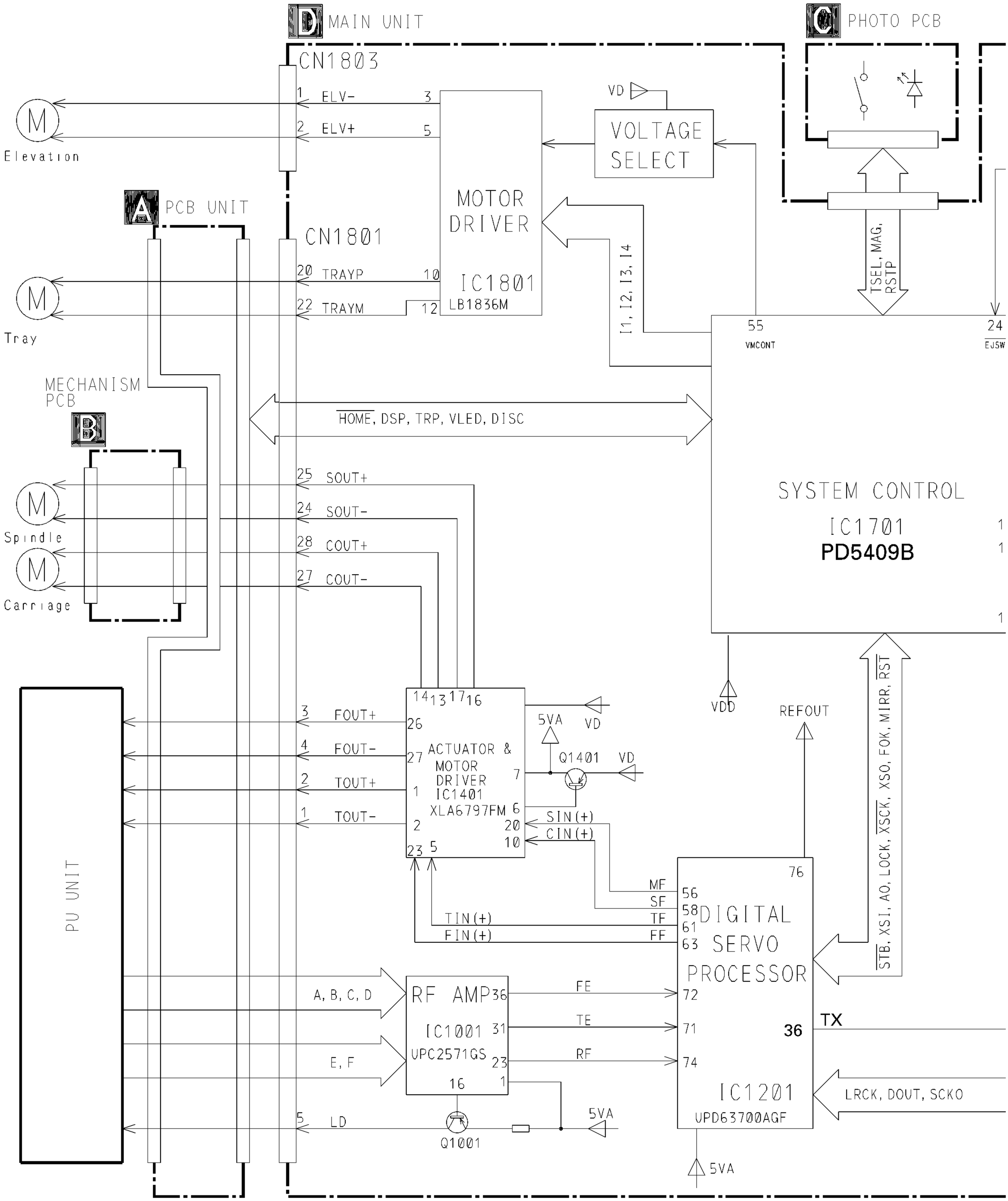
CDX-M8076ZT,M8076ZT-91,M8176ZT,M8176ZT-91,
CDX-M8476ZT,M8476ZT-91

● CDX-M8476ZT/UC



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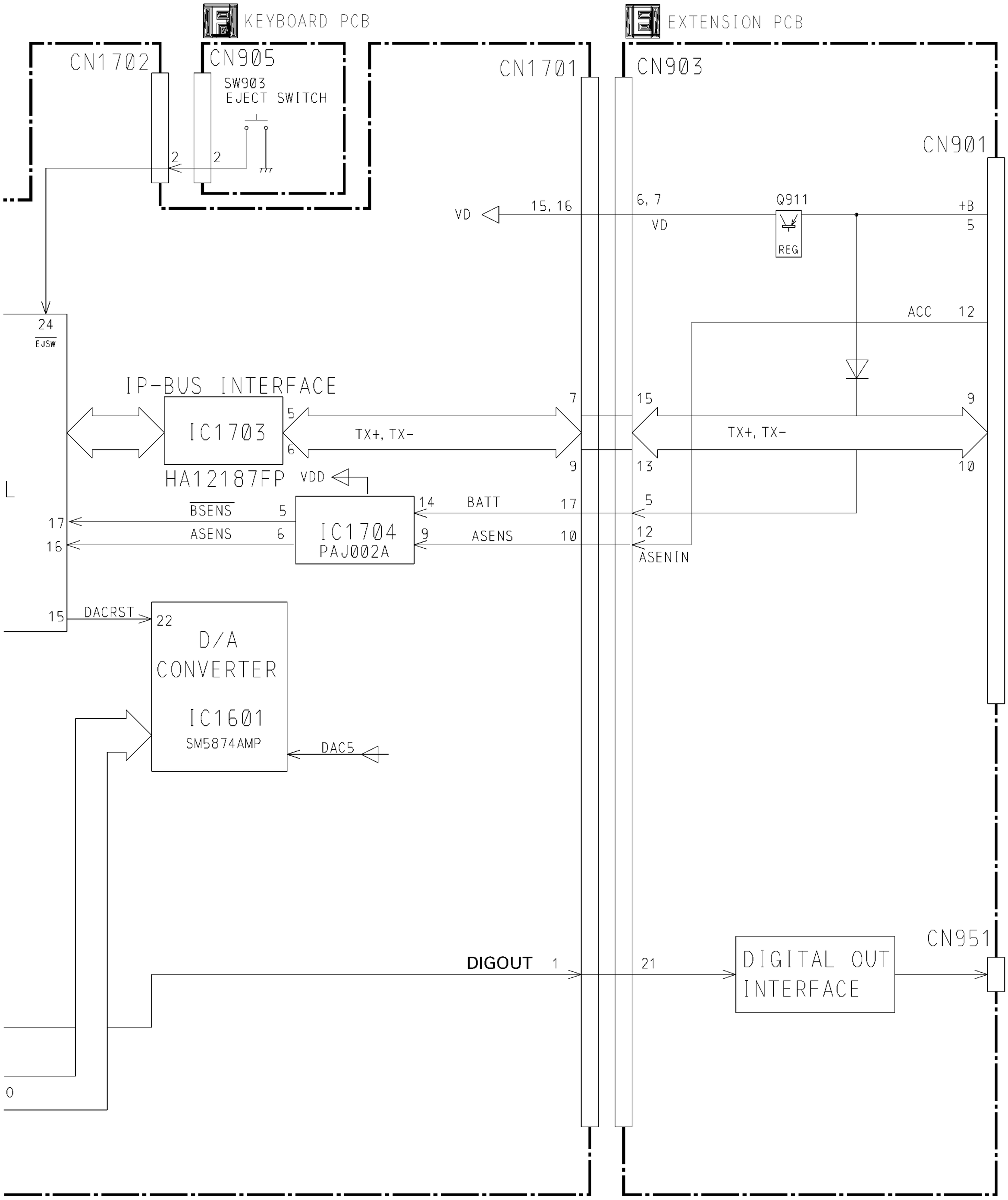

Fig. 38

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8. OPERATIONS AND SPECIFICATIONS

8.1 OPERATIONS

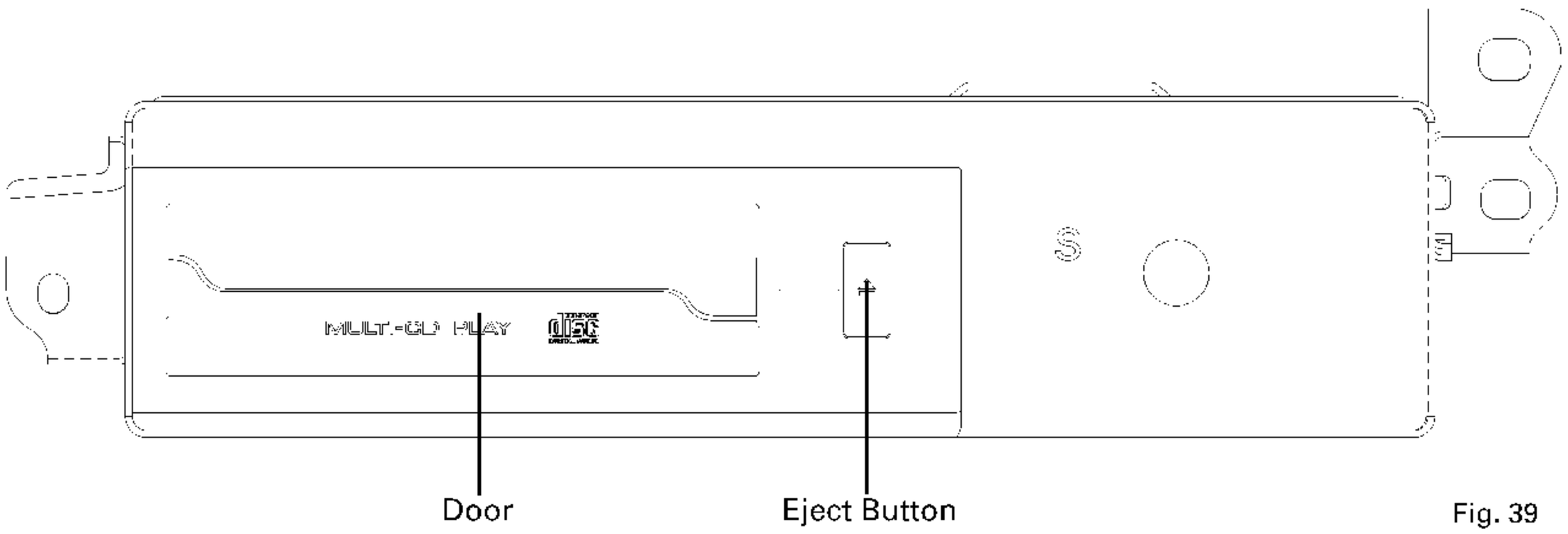

Fig. 39

8.2 SPECIFICATIONS

CDX-M8076ZT/E, M8176ZT/E, M8476ZT/UC

Power source .....13.2 V(10.5 V — 16.0 V allowable)

Grounding system.....Negative type

CDX-M8076ZT/E, M8176ZT/E

Maximum output voltage.....2 Vrms

Frequency characteristics .....±1.5 dB(20 Hz)

±1.5 dB(20 kHz)

Signal-to-noise ratio .....More than 80 dB

Distortion.....Less than 0.1 %

Separation .....More than 65 dB

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE INC. P.O.Box 1760, Long Beach, CA 90801-1760 U.S.A.
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE.LTD. 501 Orchard Road, #10-00, Lane Crawford Place, Singapore 0923

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